VOLUME XCVIII

NUMBER SIX

THE NATIONAL GEOGRAPHIC MAGAZINE

DECEMBER, 1950

Map of Western Europe

Home to the Holy Land

With 41 Illustrations and Map
31 in Natural Colors MAYNARD OWEN WILLIAMS

Mid-Century Holland Builds Her Future

With 33 Illustrations and Map 24 in Natural Colors

SYDNEY CLARK

Exploring the World of Gems

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Large-scale Western Europe Map

J. W. Westcott, Postman for the Great Lakes
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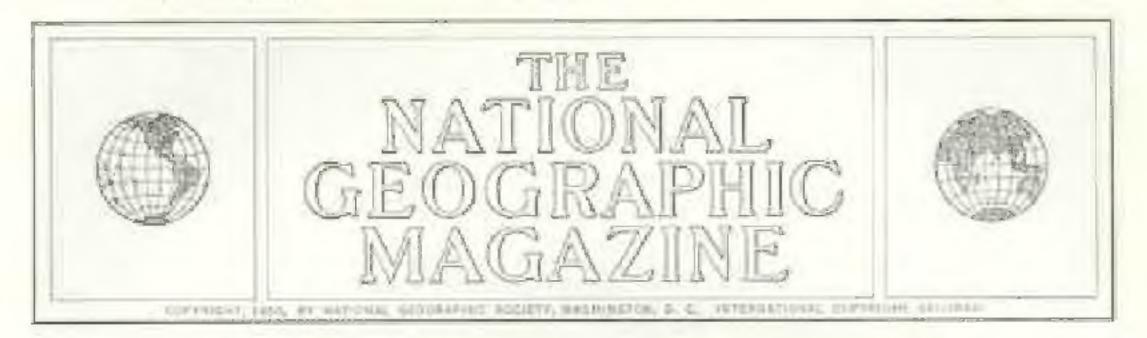
Fifty-six Pages of Illustrations in Color

PUBLISHED BY THE
NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D. C.

5.00 AYEAR

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Home to the Holy Land

BY MAYNARD OWEN WILLIAMS

THIS is a simple traveler's tale of one who, coming home to the Holy Land, found friendship there at Eastertime. Sitting below the hallowed walls of Jerusalem, I watched thousands of Christians, bearing banners and waving palms, going up to the Holy City.*

A few rods away was a no man's land, outlined by barbed wire and hombed-out homes—grim reminders of the Palestine war. While Christians celebrated 20 centuries of Easters, an infant Israel danced in the streets to celebrate its second anniversary.

The places most significant and venerated in the life of Jesus Christ are now held by two new Middle East States, the Hashemite Kingdom of the Jordan and Israel (map, page 710).

Betalehem, where the drama of the New Testament begins with the hirth of Christ, and that part of Jerusalem where the last chapters end with His crucifixion are both in the hands of Arab Jordan. Nazareth, where Jesus spent His childhood and grew to manhood, is in Israel, as is Galilee, where He performed His many miracles.

Two Semitic antions, handcuffed by an uneasy armistice, guard sites revered by the followers of three great faiths (page 712).

Harder Work for a Timeworn Land

What was Palestine is slowly but steadily recovering from the Arab-Jewish war. Bright spots dot the desert. But to attain a higher standard of living for more people, Arab and Jew must make helds grow more grain, cows produce more milk, hens more eggs, sheep more wool and meat, orchards more finit, an agricultural land more industries, and industry more markets. A timeworn land must

work harder under the same sun and rain.

How can this be done, with more than 700,000 Arabs displaced by the war and huddled in refugee cumps, in tents, and in caves? How can it be done, with a half-million Zionist immigrants, lured by the magic name of Israel, seeking a new and better life?

This remains a huge dark puzzle for a land rich in puzzles. Probably not for decades will anyone know the solution.†

The glorious paths that Christ trod remain, though marred through the centuries by tramping feet and pounding hoofs of hostile armies. Only two years ago His footsteps were again obscured by the tread of tank tracks and the furrows of Jeep tires. But for hundreds of years Christian pilgrims have followed His course at Eastertime to commemorate His entry into the city of Jerusalem.

So at Christmastide they flock to the dimly lit Bethlebern grotto where He was born.

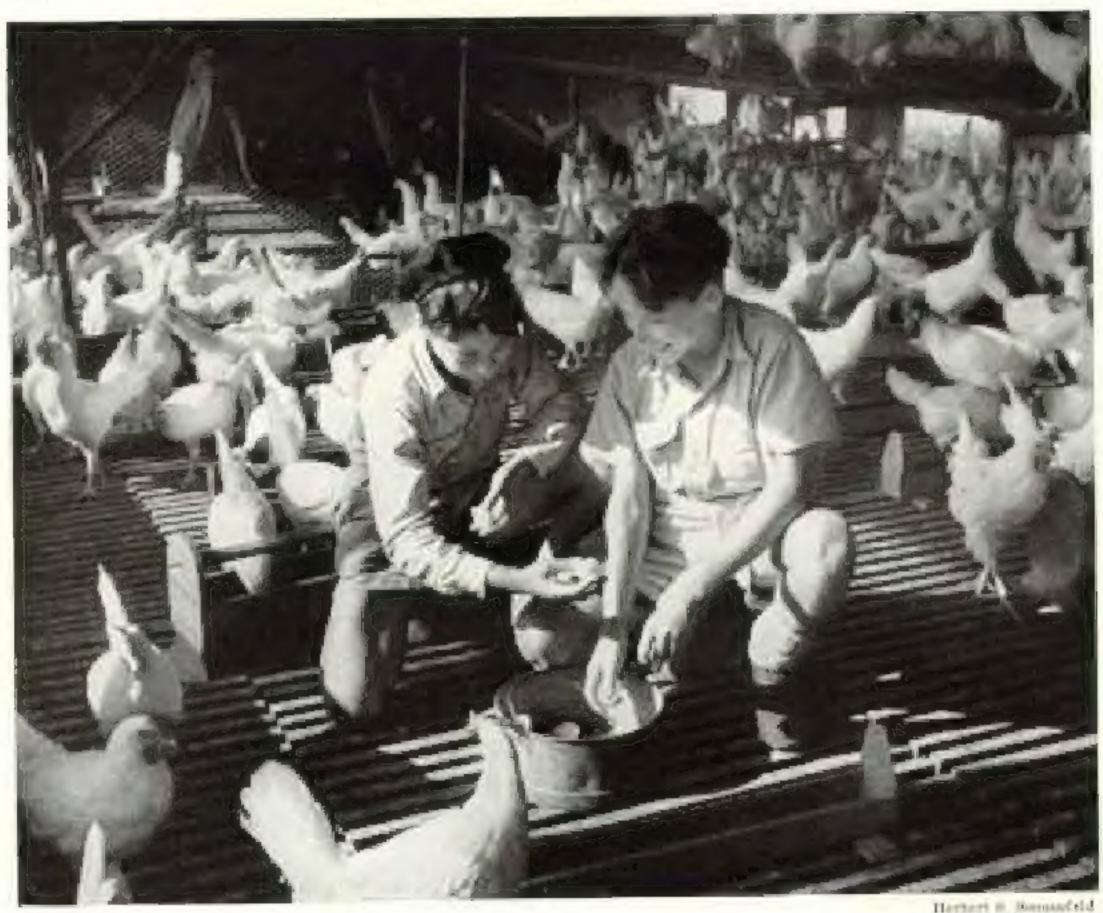
A Boom Town in the Desert

These days it is a long road to Jerusalem. Steamers which serve Alexandria, Egypt, and Beirut, the booming capital of Lebanon, bypass Israel's ports of Jaffa and Haifa. Last spring, those travelers entering through Jewish ports could not cross into the Jordan-held Old City of Jerusalem.

I docked in Beirut and proceeded to the bustling Jordan capital of Amman (pages

*See "Pageant of Jerusalem," by Maj Edward Kelth Roach, Namowat Guossarme Manazor, December, 1927.

"Palestine Today," by Francis Chase, Jr., October, 1946; "American Fighters Visit fillide Lands," by Maynard Owen Williams, March, 1946; "Change Comes to Rible Lands," by Frederick Simpleb, December, 1958.



"They're Getting Bigger!" Israeli Orphans Appraise Poultry Dividends

Poultry farming is a science with the Jews, who boast that their hand-fed hens autproduce mative scavengers four to one. Despite a fine laying record, the market goes unsatisfied. These Leghorns belong to a children's village in Ra'anana, north of Tel Aviv (page 731).

713, 7591.* Along with the air-conditioned communities built overnight in the oil fields of Arabia, 'Amman is a fast growing city. Five years ago it had 60,000 residents. Today it boasts more than 150,000 and in another five years hopes to attain the halfmillion mark.

Mud-walled Village to Modern City

To one who knew it 20 years ago as a mud-walled village, with wooden-wheeled exearts coursing through its narrow streets, modern Amman is a great surprise. On the heights fine homes and excellent schools have Brisen.

New shops, offices, and apartments are going up all over the city. The stoneman's tireless hammer dins throughout the day. In spacious new stores, some owned by refugees from Haifa and Jaffa, one can buy shirts from Troy, toffee from Scotland, and corn flakes from Battle Creek, Michigan.

Against this modern backdrop strolls the ever-present Biblical shepherd in flowing robe and guat-hair crown, leading his sheep to market (page 716).

To Christians, these desert men who come to town with their flocks are the modern embodiment of the Good Shepherd. Without them, millions of acres of semibarren land would be waste.

Where rainfull is less than eight inches a year, pastoral life persists. The shepherd, for a thousand years, has proved that he, at least, can live off the land.

In the countryside I saw tractors displacing plowing camels and trucks speeding along the spleodid new highways. In sharp contrast, a bus driver honked to clear the road of a slow-moving caravan.

From flourishing Amman I rode down to

" See "Arab Land Beyond the Jordan," 18 ills, in color, NATIONAL GEOGRAPHIC MAGAZINE, December, 1947.



National Geographic Photographer Marriary there Williams

Mother Clamps a Gentle Stranglehold on Two Objectors Taking Typhoid Shots

Trips to the Red Cross tent are not popular among Arab children in 'Ain es Sultan refugee camp near Jericho (pages 711, 737). This woman drags her offspring willy-nilly. Sister cries, 'Ouch!' Brother, who's next, remains trapped in a female vise. Typhus and diphtheria injections also are given.



the River Jordan * (which ceased being a frontier when Jordan annexed Arab Palestine in April this year), crossed over, and rolled into

Jericho, tive miles farther on.

Again, as when Mark Antony gave it to Chepatra, Jericho is a winter resort. But last winter the town was covered with four inches of snow, the severest winter in 264 years. One of the lowest towns on the earth's surface, it lies 840 feet below sea level. Only 15 miles from Jerusalem, it is 3,500 feet below the Holy City,

Misery in the "Kingdoms of the World"

Above the town towers the Mount of Temptation, where the Devil led Jesus and "shewed auto Him all the kingdoms of the world" (Luke 4:5). Today Satan could show Him

only human misery and suffering.

Below, the land is dotted with thousands of tents and thousands of ranged Arab refugees. These homeless men, women, and children, who fled Israel two years ago and cannot return to their homes until the issue is settled, huddle together in their despair and await their fate.

Their thirst is quenched from the same fountain which Elisha sweetened with salt (II Kings 2:19-22), but not their thirst for home,

The plight of these homeless souls is the saddest in all the Holy Land today. At 'Ain es Sultan camp (pages 709, 727), close to "where the walls came tumbling down" before Joshua's trumpets, I encountered the first of many Arab refugers I was to see. Most of them would starve if it weren't for UN and Red Cross relief.

"They talk of history," one of them said to me, "but what is history compared with a man's own home?" These restless, despairing Arabs are one of the world's touchiest

problems today,

With a heavy heart 1 started my climb to the city of Jerusalem (page 755).

A Mosque for Omar's Deed

Upon arriving. I went first to the American Colony, where old friends greeted me warmly. That evening I strolled through the shadowy souds within the historic walls of the Old City to Christendom's holiest site, the Church of the Holy Sepulcher. The tiny gate to the courtyard was locked. Above me towered the minaret of the Mosque of Sidna (Caliph) Onar, to whom the Patriarch Sophronios surrendered Jerusalem A. D. 637.

When Sophronies invited Omac to join him in prayer in the Holy Sepulcher, then the Church of Constantine, the latter begged to be excused. Omar explained that, if he did,

his Moslem countrymen might claim the church. He said his prayers near by. The mosque which commemorates his good deed still shines down on Christian pilgrims.

As I stood there, a Sudanese policeman, in soft-spoken Arabic, asked Allah's blessing on my evening. I tramped home, listening to the sound of beelless slippers of the half-veiled East. The spell of Jerusalem was upon me.

In the Jerusalem souks the lights and shadows of oven and lorge, the rich glow of oranges, eggplants, and tomatoes, the peddlers' street cries and the "oo-ah" warning of the mulateers, the smell of spices, new boiled coffee, and fresh-baked bread, all appeal more to sense than to soul. But this, too, is the Holy City.

One day, as I left the American Colony to take in some sights of postwar Jerusalem, a military convoy passed along Nablus Road. Arab forces were escorting Jewish guards to Hadassah Hospital inside the Arab lines. Once a month road traffic stops long enough to admit the Jews and change the skeleton guard at the closed-down hospital.

Victims of Holy Land War

Looking up to Mount Scopus from the north wall of the Old City, you can see the Rocke-felier-endowed Palestine Archeological Museum, which is still open but has little hope of new finds (page 726). Since Palestine is broken up, new discoveries will go either to a Jewish or Arab museum, unless Arab. Christian, and Jew can unite to keep the splendid establishment alive.

Another great institution on Mount Scopus is closed. Because access to Hebrew University lies in Arab territory, the classrooms and laboratories of the modern campus are empty. Ironically enough, Arab College lies in the Jewish section of Jerusalem and no longer functions.

From the Mount of Olives I leoked down on the walled city, bathed in morning light. Then I descended a steep path to where Jesus wept over Jerusalum. I passed Gethsemane, climbed to the Temple Area, sought out the Wailing Wall of the Jews and the other antiq-

uities of the Walled City,

To are, few spots have the quiet dignity of the Haram esh Sharif—the Noble Sanctuary (page 728). It was here that Solomon built his Temple and Herod the one where Jesus taught. The peaceful mosques repeat the Christian promise: "Come unto me, all ye that

"Geography of the National Geographic Magazine" Geography of the Jordan," by Nelson Glock Dicember, 1944; and "Canneing Down the River Jordan," by John D. Whiting December, 1940



12 George Picture - Then Loom

"Come and Dance the Hare!" Israeli Students Shout at a Jerusalem Festival

With bright blue-and white Israeli flags flying in the background and the orchestra beating out a stirring rhythm, young people perform their national dance before an eager audience at a park in the New City. Most popular of all Hebrew folk dances, the born is frequently danced at farm settlements.

labour and are beavy laders, and I will give you rest" (Matthew 11:28). If some tired believers fall asleep beside the prayer niche, it is Allah's will.

Jerusalem's "House of Prayer"

In the center of the Sanctuary stands the magnificent Dome of the Rock, whose large, dark-gray dome is probably the most graceful in the world (page 735). The beauty of this mosque is even more remarkable when one considers that the original Dome was built at the end of the 7th century.

The rock mass on which it stands is said to be the stone from which the Prophet Mohammed ascended to heaven on his winged steed, el Burak; but fong before the 7th century it had been revered.

The mosque (also called Mosque of Omar) stands as a masterpiece of Moslem architecture. Next to Mecca's Kaaba and Median's mosque, it is the edifice most revered by Moslems, Jordan's King Abdullah (page 745) often comes to it to pray. Indeed, as Isaiah prophesied and Jesus desired, the Temple area has become a "house of prayer for all people."

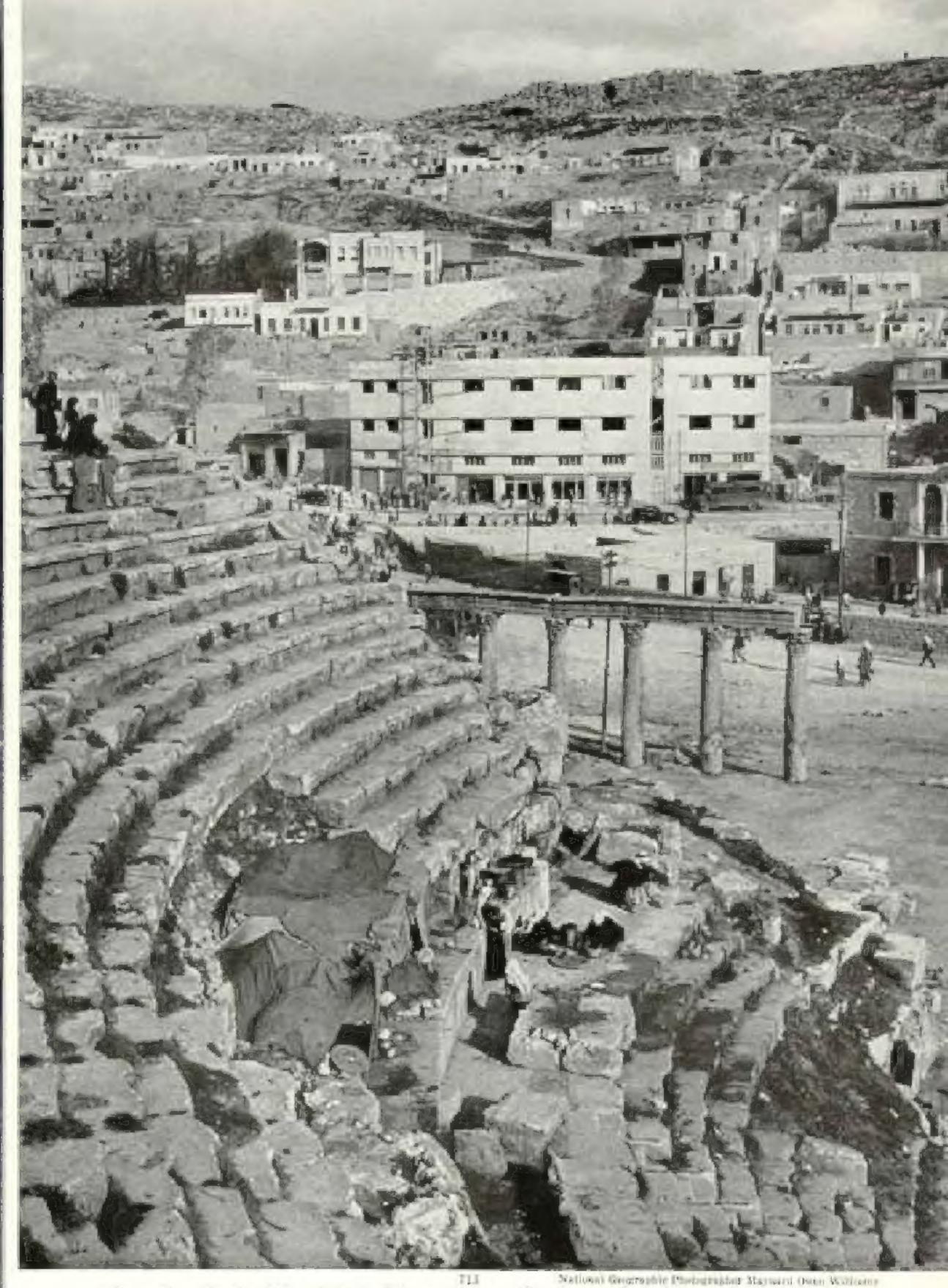
Visitors pay admission, but there is no commerce in the area from which Jesus "cast out all them that sold and bought in the temple" (Matthew 21:12). So I was surprised to see people coming from the Golden Gate carrying food. I went for a look.

What I found was a 20th-century echo of Isaiab's glad call: "Come ye . . . that bath no money"! Red Cross relief rations were being distributed.

Christmas activity in Jerusalem is rivaled only at Easter. Then the visitor could easily do nothing but go to church all day for nearly two weeks. When the Jewish Passover and the Easter of the Roman Catholics are finished, the Easter celebrations of the Greek Orthodox, Syrians, Copts, Armenians, and Abyssinians begin. In 1950 the Catholic and Orthodox Easters were celebrated on the same day.

Pilgrims Hail a Modern Saviour

The first big event of Holy Week is the Palm Sunday procession (page 715) from Bethphage to Jerusalem, along the route by which Jesus rode into Jerusalem and "a very great multitude spread their garments in the



Homeless Arabs Take Refuge Where Roman Gladiators Dueled 1,800 Years Ago

Amount was called Philadelphia when this 4,000-star theater was built. No speciation take place in the ruin today, but new buildings go up all around. Refugees sleep in corridors through which wild beasts entered the arena.

way" and cried, "Hosanca . . . Blessed is He that cometh in the name of the Lord"

(Matthew 21:8, 9).

Today, as in Crusader times, thousands of Christians retrace the route. I joined a group of Roman Catholics as they gathered in the garden of Bethphage. We marched over Olivet, descended past Gethsemane, and passed through St. Stephen's Gate (page 724) to St. Anne's Convent.

At the end of the hot, dusty walk we assembled in the courtyard of St. Anne's. Suddenly there was a rustling. Women began waving their palm fronds as other women, long ago, had saluted Jesus. A priest had just ridden in on a dankey. Those around me insisted he represented the Saviour.

Christ in horn-rimmed spectacles and carrying a camera! I refused to believe it. Then

I learned the facts.

A Catholic priest from Wisconsin bad fallen on the ice at home and broken his leg. Nevertheless, he refused to abandon his plans for a Holy Year pilgrimage. But his lameness would prevent him from marching in the long procession over the Mount of Olives. Quite sensibly, he rented a donkey and was more surprised at the greeting he received than anyone in the procession. Thus a short-lived legend was born.

On Maundy Thursday the Greek and Armenian clergymen don their most ornate vestments and put on the best show of Holy Week, the Washing-of-the-Feet ceremony, to commemorate the Last Supper. The Greeks hold their awe-inspiring service in the courtyard of the Church of the Holy Sepul-

cher in the morning (page 721).

Custain Time in St. Jumes

In the afternoon, crowds flock to the Cathedral of St. James to witness the colorful Armenian ritual. Against a backdrop of flickering candles, cholrhoys in gold-embroidered damask robes begin to chant in high voices.

Then the handsome blue satin curtain hiding the altar parts, and a carefully executed drama unfolds. Amid the dazzling glitter of silver, silk, and brocade, each of the priests, who represent Christ's Disciples, goes before the kneeling Patriarch to have his feet washed, wiped, and anointed with all (page 717).

Consular fings at half-mast quietly announce Good Friday, when reverent pilgrims retrace the Way of the Cross from Pilate's

judgment seat to Calvary.

Easter Saturday heralds one of the most spectacular ceremonies of Holy Week, that of the Holy Fire.

Under a high dome stands the little Chapel of the Holy Sepulcher. Within it a cracked marble slab hides the rough-stoned tomb of Christ. On two sides of it are small windows from which fire bursts out to send the crowds into wild eastasy. The fire is symbolic, but some Greeks. Armenians, and Copts believe it comes from heaven.

Sturdy youths snatch the fire and fight their way to the various chapels with lighted condles. Thousands of spectators reach forth to receive the fire on their own candles. With the smell of burning wax and the excitement of the crowd, the ceremony ends in tumult, which some call bedlam, a shortened form of the word Bethlehem.

Tour-toms Herald Easter

That night, under a gaily decorated tent on the roof of St. Helena's Chapel, the Abyssinians parade to the best of tom-toms. Bright eyed boys proudly strut beside their bishop with his jeweled umbrella and glittering robe, in the traditional search for the body of Christ. Then the sound of drums dies away. The quiet of Easter Eve descends on the Holy City.

On Easter Sunday I climaxed the almost endless succession of Holy Week ceremonies by attending a Protestunt service beneath purple Judas trees outside the Garden Tomb.

Somehow this spot retains the appearance of an unclent burial place and gives added meaning and simplicity to the memory of Christ's death.

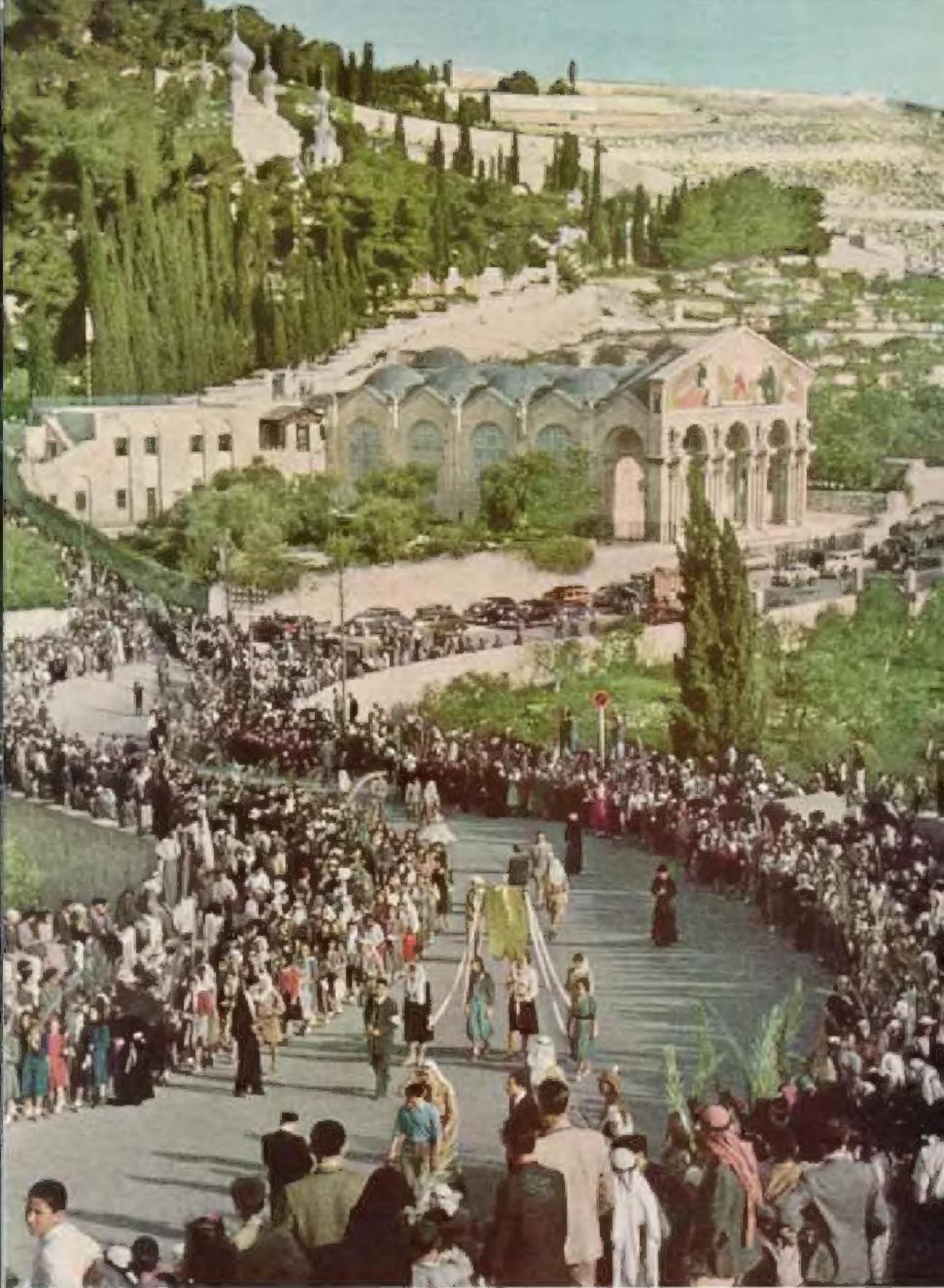
One day, with the permission of an Arab Legionnaire, I looked down into Israel from the Old City walls near Zion Gate. Officials in Washington had promised me every help, except that of bridging this 50-yard gap of no man's land between Jordan and Israel. If the information I got had been correct, I would have had to detour to 'Amman, Damascus, Beirut, and Cyprus before reaching this spat in Israel, below my very eyes.

Jewish friends in New York had urged me to attend the second antiversary of Israel, celebrated this year on April 23. There was no certainty that I could get back into Arab territory. But a national boilday, for which the wandering Jew had waited nearly 1,900 years,

could not be ignored.

I finally obtained permission to make the crossing. I carried my equipment from Jordan to Israel and later came back the same way. Thus a 600-mile trip was shortened to a brief walk from one taxi to another.

I found myself standing in the New City, which has grown up in the last 100 years outside Jerusalem's ancient walls. It is



C Father Geographic Reports

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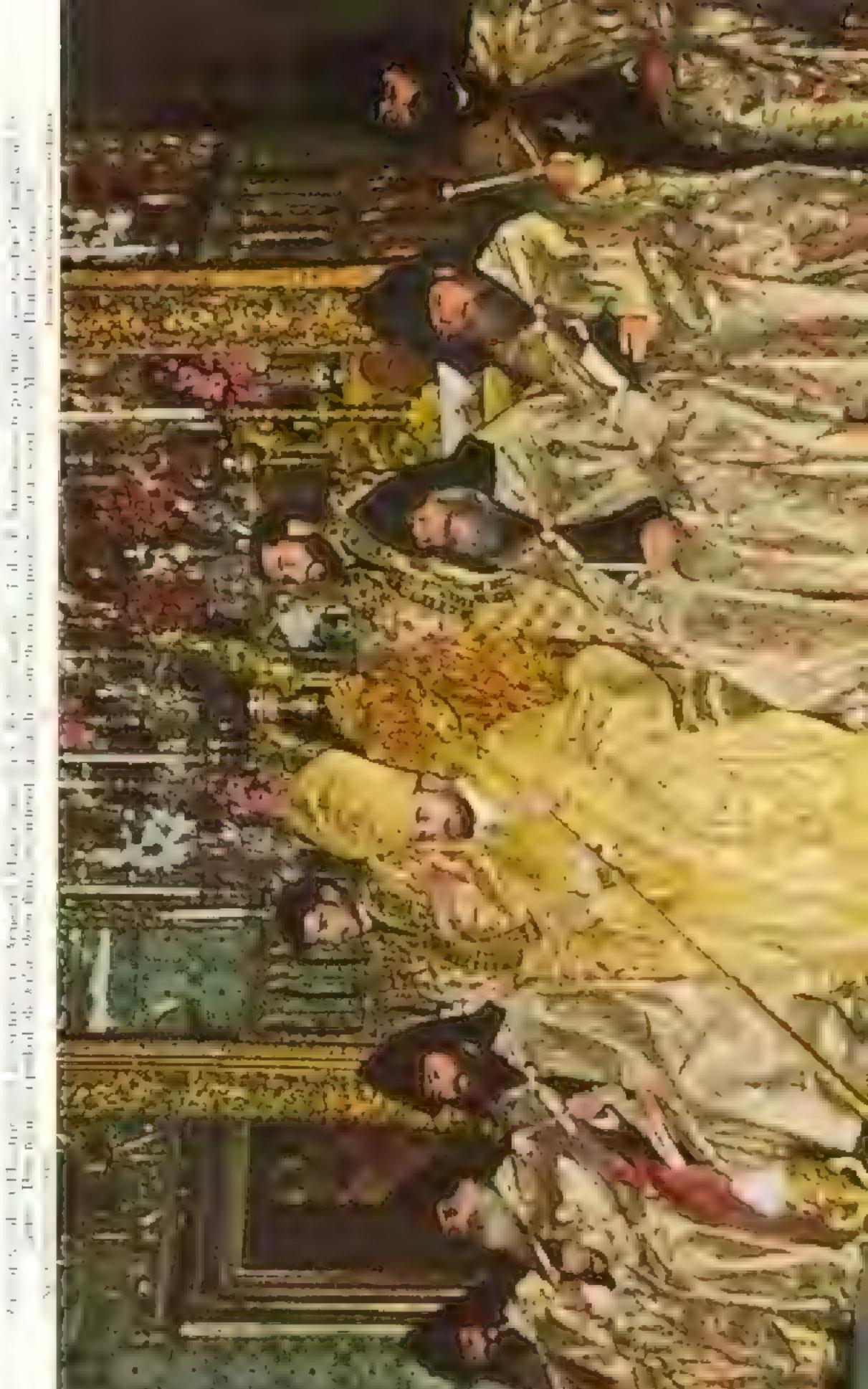
Seclarations by Mannard Owner Williams

Roman Catholic Pilgrims on Palm Sunday March from the Mount of Olives

Cypress groves around the bulbous-spired Russian Church and olive trees near the Franciscan Basilica mark the site of the Jerusalem garden where the three Disciples fell asleep and Judas betrayed Jesus with a kins (Matthew 20:49).



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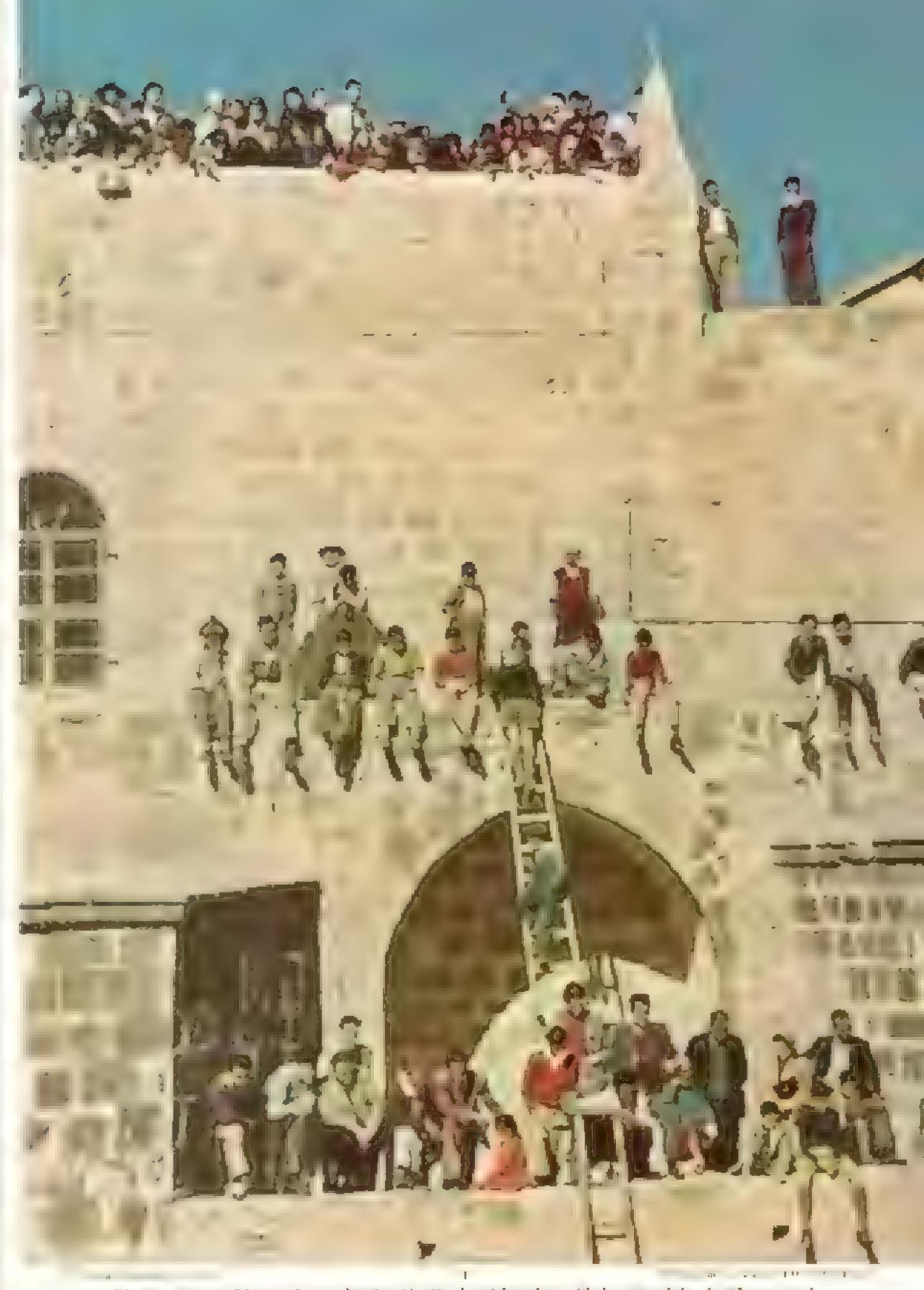
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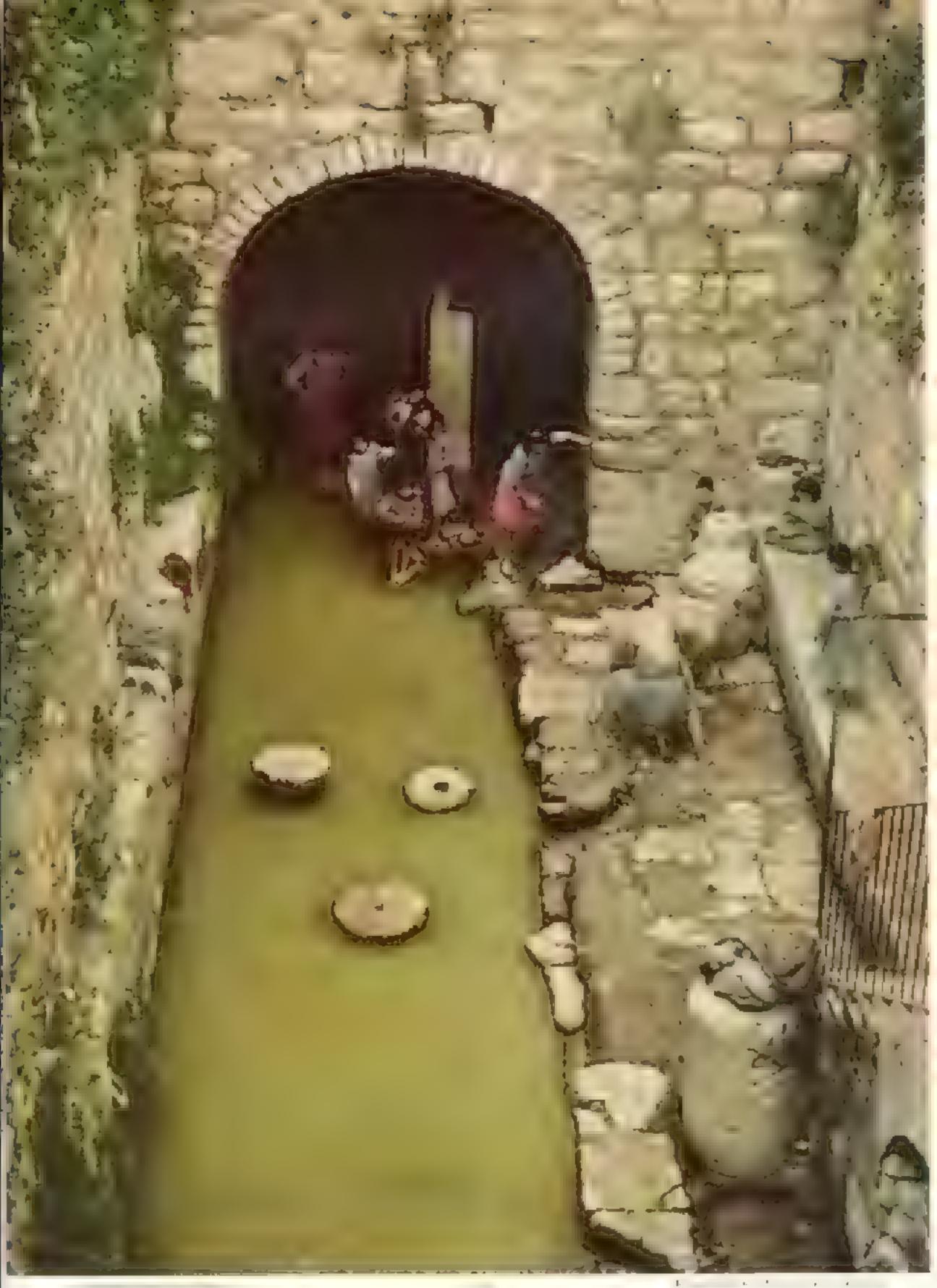
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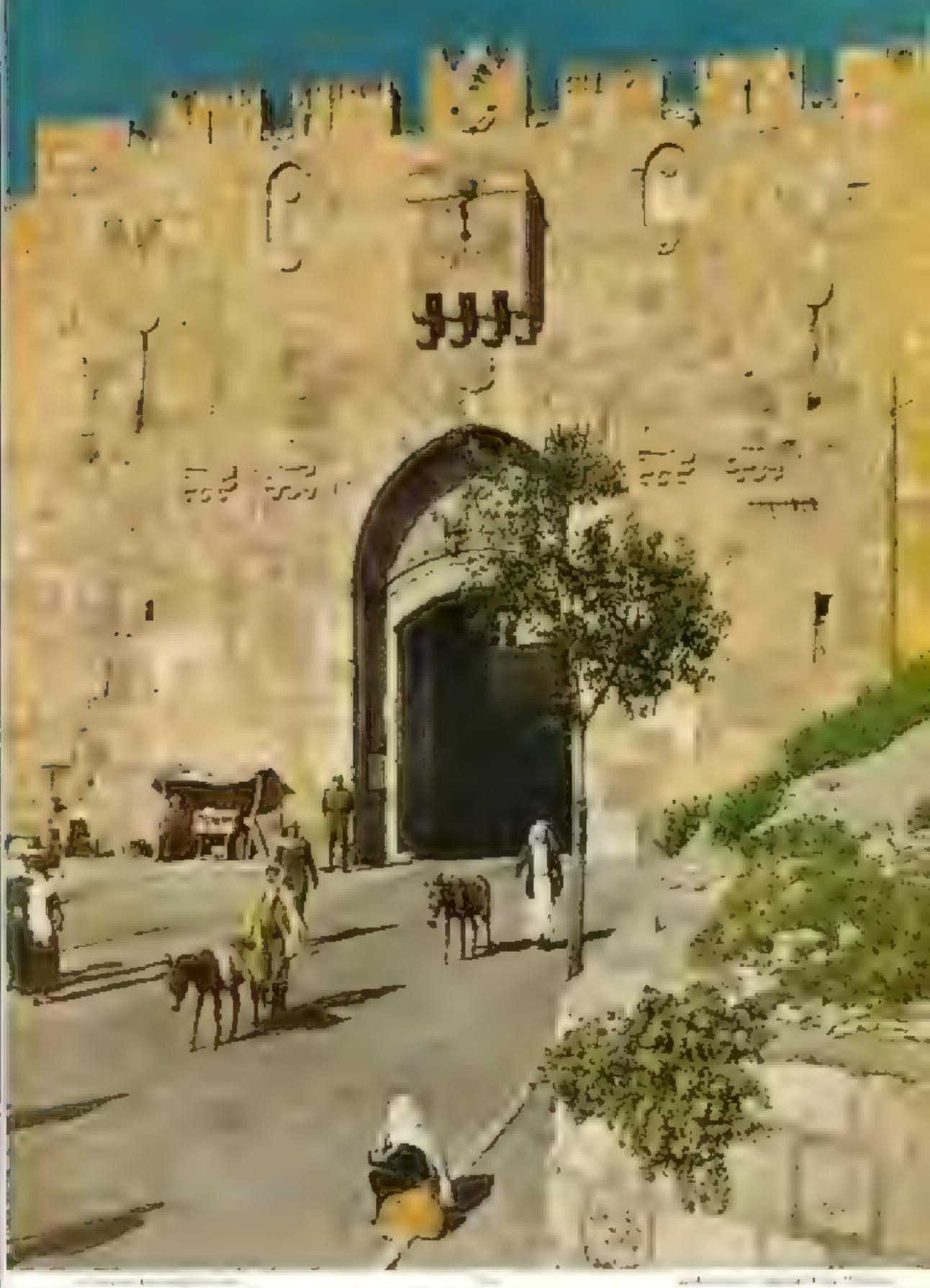
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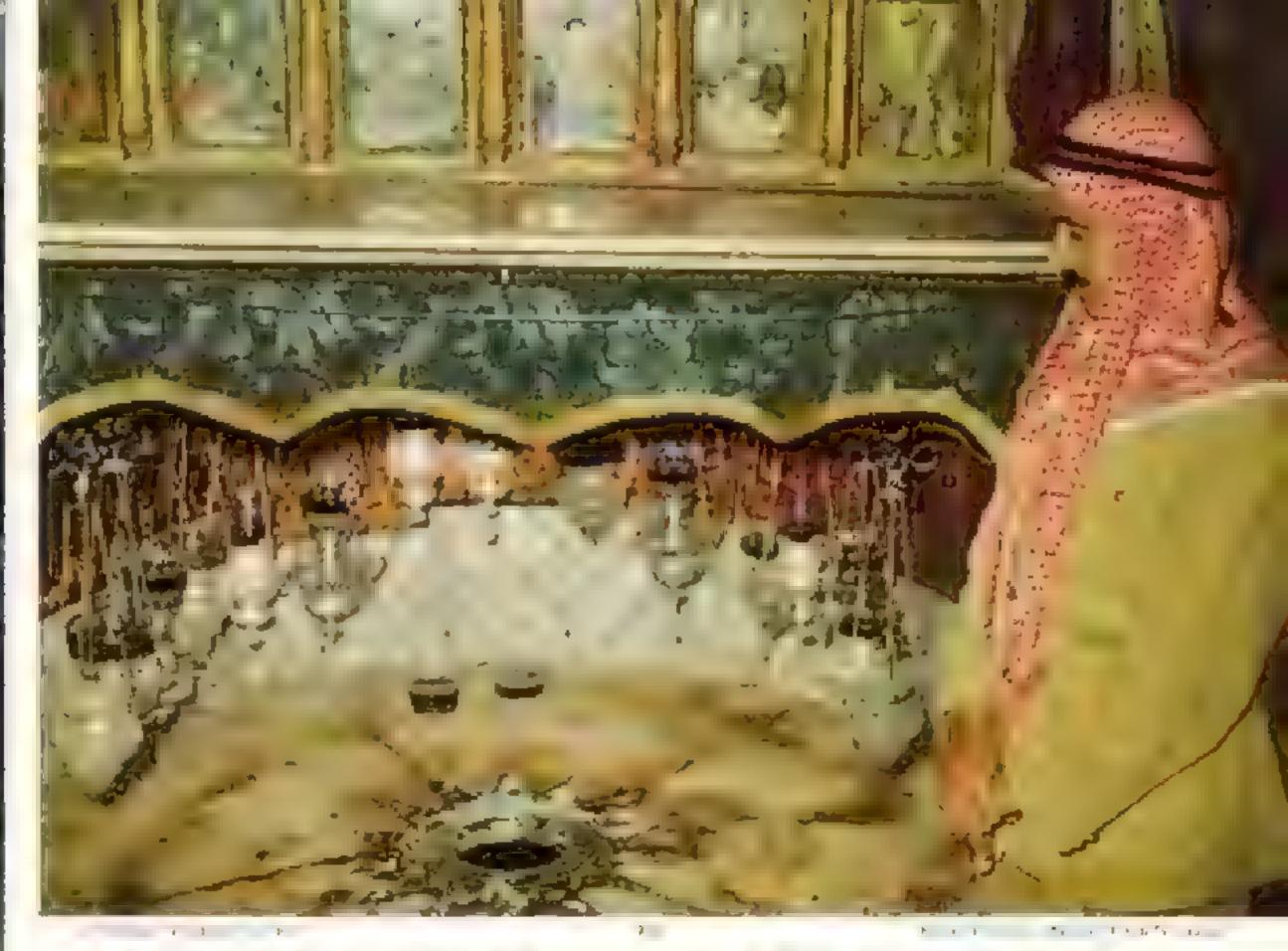
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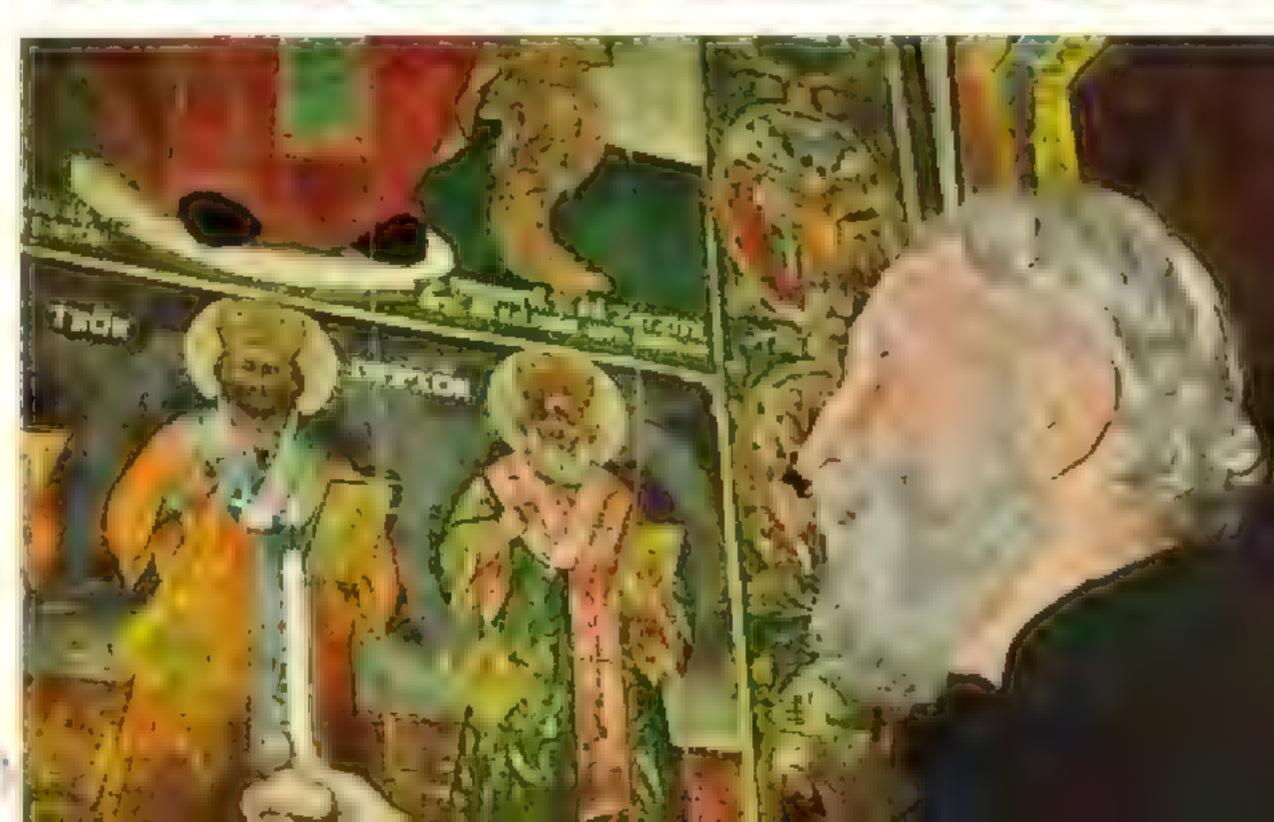


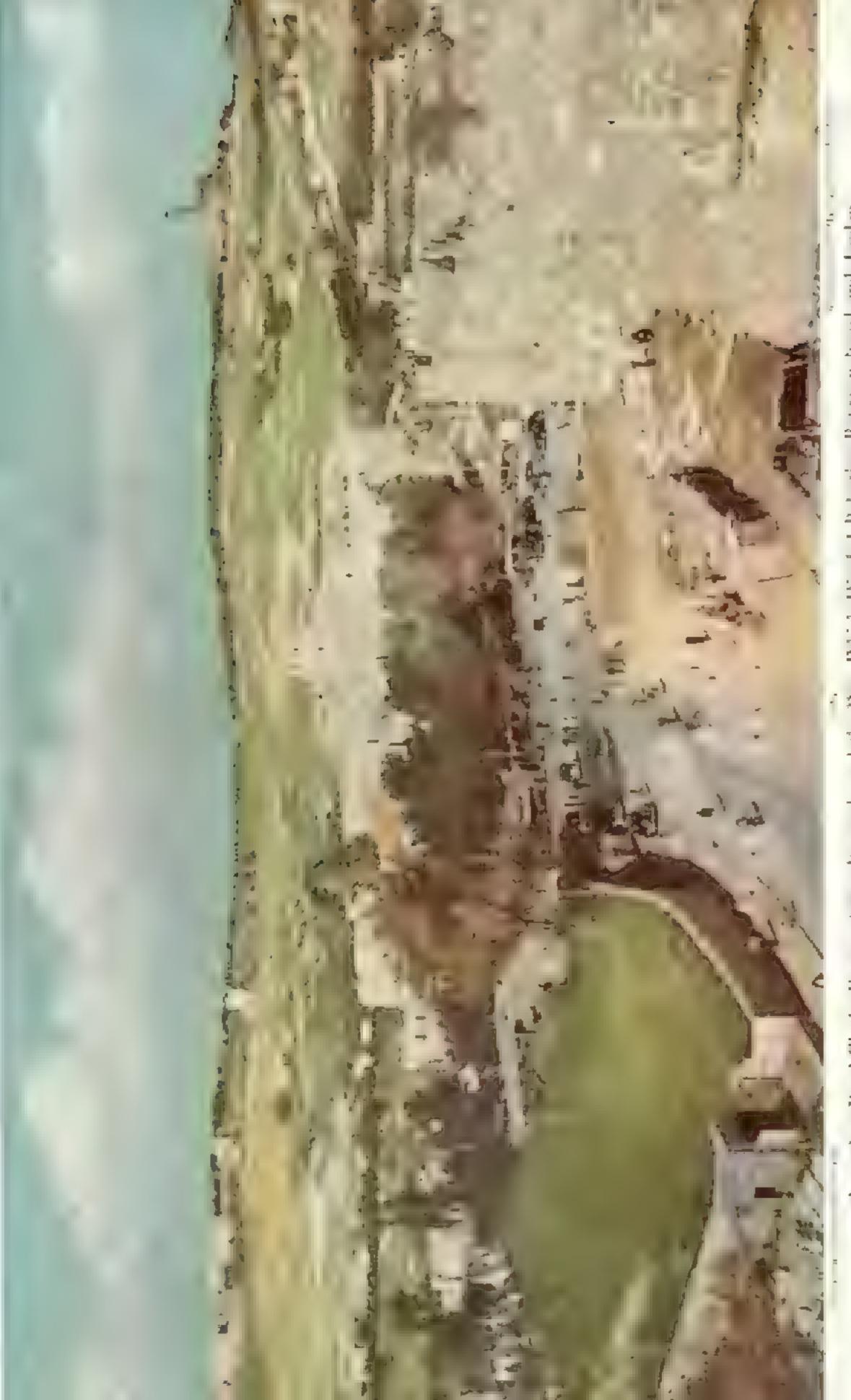
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And Refugers Assemble for Red Cross Rations pear the Mosque of Umar fermulem's famous master (p. se 715) basses the sound took from which Maskens bears to the sound of the contribution o



An Iron Sold or Digs Trenches in Israel's Battle for Water

The figure of the property of the second of

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the de facto capital of Israel and is today as lewisk a city as any other in the country. There was a b list y air. A big military parade moved down Julia Road to celebrate

Independence Day,

Legally, Israel is not at mace with any of the seven train countries it fought in 1948 and 1949 (page 737). Yet there has been no active work refor over a year and a half. The government of the young ration is functioning smoothly, even though rationing and price controls are in effect

brights warmed me of the austerity in Israel, But at the King David Hotel I found the rooms spetless, the service intelligent and polite, and the food as delicious as it was

when I joined friends there in 1931

It ming my stay in Israel, I seldom ate meat. The land is two limited and two expensive for large-scale graving. So "tanderloin," as in old-time Manualtan, suggests graft

With my deficious that of fish I comily

drank omroge ji ice.

During World War II I saw in thing an ages piled deep in the groves around Petah Tiryan near Lel Aviv. Thirsty travelers drank synthetic plack or parple sould. Or arges were everywater, but orange build war expensive and warm. So today a rold dewy bottle of orange fulce, cheap and refreshing, seems one of Isauel's triumphs.

Intraigrants Grand Valley of Elab

In one of the two cars New York columns at and showman billy Rose domited to the Israel Public Information (thice, I covered the new State from Beetsbelet to Dan with Joe Davis, a mative of New Zealand and now an Israel'.

In the Value of Elah, where David is sald to have show Godo, th, is a new camp, crowded with immegrants from Cockin, Bombay, and Rangoon. I talked with a 60 year of a writing dressed in a Mother Habbart I and with her bare feet in wooden clogs. She was worting her turn in line to draw water from the well. A ludy in Rangoon, she is now a tent dwelfer or tyrnel.

"I'm so hupay to be bere," she said. "Jus-

I do miss my servants."

At another camp near by, Thivis and I stopped for a drick of talls, served by a busomeirl with sparkling white teeth. "Nice girl, naive and unspoded," I thought to mysed, "probably has led a sheltered life."

Actually, she had escaped from Russia, made her way through Pound and Cardon-sh vakra to Laly, embatked on an diegal ship, was captured and sent to Cyprus. Now she

late a home.

Her story is typical of so namy in lated. After World War II they pouted into what was then Palestine from Europe's ghetma. Hitler's languer camps, and the postwar desphased persons camps.

When the State of Israel was proclaimed, thousands more came from 52 countries in the four corners of the earth. They came from countries with large Jewish populations, like South Africa and the United States. They also came from places like Greguland, Javana 1 Africa is a Each has his own stary to tell.

Isruel's View Percious Crop.

The next day Davis and I set out for Galilee. Our first stop was at Orien a children's village on the lash Plain of Sharon. There are scores of these settlements in Israel, most of them orphanages (pages 708-723, 746).

At Orim a teacher proudly pointed to a group of youngsters ear fled in the norsery school. "You are browing at Israel's most

precious crop," he said.

Like a new grove of orange trees, these vollagsters are given the norst thoughtful and horing care. They are the rished and protested with patient attention. They get special dues and the best of food. Several nearths ago, butter was dropped from adultations so there would be more for the children

twas the young people who for ght the war. And to the children's villages and settlement schools youngsters are being trained for the future and for peace.

I was reminded of what an old ral bi more said: "I be world is saved only by the breath

of school children "

At Onion the chaldren grow up in a cheery atmost nece, lerling that they are lived and that they belong. They learn to live together and do most of their own work in the shops and gardens, with a manimum of mind supervision.

As we left, we picked up two French-speaking arphans who were leaving Chrim to "go hone," unaware that no parents would greet them there. As we left the flowery children's village, their guardian audited them alose, to

hide her tears.

Expanding Orange Groves

Before World War I, Li this area, I saw Arah and Jewesh change growers competing in free dehip of direction equal terms. Later, when Zumist funds poured in Jewish croves pushed to the on the fertile phain and down toward, the southern desert,

This year, watered by elaborate spraying



Up and Over An Arab Vaulter Leaps for His Rushndisa College Leaps

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Sa'sa'. Seeing this new settlement rising from pothing on a bleak hillshie. I remembered the remark of one Zemist several years ago. I ask a low things were going

"Wid," he replied "little to trike and

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We matered have to Notal viewed. It is the state of white Melloman can said there the Jown treatment of the property of the Johnson of the property.

Here we may we not blaif, its gieres ing after architecture in stemp contrast with the star. The city factor at a largest not most mortial ports on the Mediterrangue Some Israelis sevard Tel Aviv as the other in the process. Terusaleur, despite its choice is apart is best known to require the factor. In the factor of the fatter of the many half entshing both its preferessor.

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Sailing Time in 'Ein Gev: Jewish Farmers Ship Tomatoes Across the Sea of Gul lee The state of the last two two transfers of the Synan side of the last 450 members regions for the creater than company on the wider that they be per a fix your

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Everything Rolled into One City

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"LILLIAM LITTLE HOLDEN

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An Ivraeli Tends His Sheep and Dorbies as Loosout along the Syrian Berder

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"Operation Madic Curpet"

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Or. I Wolfsherg, writing in BYZO of Israel, argues that a majority of the world lews should settle in Israel—an average of 10.1 and are now others.

Mest to the ular of mass immediately his was a lower of Nappet," where we get in lower the Nappet, "where we get in lower the Series Series Analysis of the Araba of the Araba

Pleas has created little larger for he arter to place the nation of the factor of the nation of the factor of the

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In the Westmanness of the Shell of the world before produce and the state of the control of the

In 1950 that Land is the Jawish Republic of Israel. Jewish money and energy have to-claimed swamp and deart, and the nation 5 long-range plans show imaginative foresight.

In Rehovot the Weizmann Institute of Scicace, one of the firest research centers in the Modelle East, is attacking two basic problems of world-wide importance—protein substitutes for meat and the parifying of soft water.

Vegetable Proteins Serve as Meat

Scientists have demonstrated on an industrial-commercial scale that vegetable proteins can be so transformed as to serve in place of ment. And a pilot plant in Rehovot is plready desalting brackish water by chemical means.

My driver to Relevot was a black eyed lewess weating a shapely sweater, a checked skirt, and mannish boots. As we charged through trathe in the narrow streets of Tel Aviv and then hit the open road, she sangfiest in a soft, troubing soprane, then as a talk alto. From a pleading "Last Rose of Summer" she picked up momentum and roared cut with the "Toreah r" sang.

She was only 19 and a balf years old. She escaped from Russia to Afghanistan, Bombay, Tebran, and then to Israel. She spent abnust three years in the Israel Army, and in the Arab-lewish war she doubled in jeep and

nachhe gu.

"I d drive to where the fighting was hat

and then pop, pop, pop!"

She had seven wounds in her right arm and a bullet in her right knee. She hopes to study nucle in New York. She speaks Arabic, Persian. Russian, French, English, and Richard. And when I took a seat in her cab, I wondered whether we would have to take in sign language! Her name is Scheherazzoc. What a story she could tell.

Poor but Loyal Hearts

As I left I-smal and rode past two frontier shacks beside a blocked road into Jordan, I still thought of her. If age were told by experience, she would be an old lady.

In Old Jerusalem I met Dr. Manie Musa, a Christian Arab refugee. He was trained in Texas and now directs health work in Jardan. He brought me up to date an the

I raith situation.

Under the British manuface, medicine in Calestine was pretty well socialized, since few patients could afford to pay anything. Detors served for a salary, and the project mother could have her buby as a mother should. Centagious diseases were induted and epiderales controlled.

When the British withdrew, mandate saleries were discontinued, but the Health Department carried on with loyal hearts—and flat packettooks. Salaries now are a mere fraction of what foreign doctors and relief workers get. Arab sloctors and nurses are pulling in their belief and sticking to their jobs. Without them the health standards of the thousands of refugees and citizens would be lowered considerably.

With Dr. Musa I drave down to the bill town of Bethlehem, where to the is ballowed. People all over the world will turn their thoughts at Christmastime toward the Church of the Nativity (page 725), built over the billional site where Jesus was born and laid

in a mangef."

From this scene of perential pilgrimage, we motored south to Hebron. At the rity's health center uncerfed Arab infants were being weighted. The mothers, lacking nour-leburent themselves, have little milk for their babies. But they look like Madonnas, their faces Lt with mother love. They wouled tenderly on their newhorn bales, just as Mary did nearly 2.000 years ago.

Wise Mee Still Follow the Star.

As I got my camera ready to take some phot graphs, one woman dropped her well, There was whispering among her companions, and again she showed her face

"You know what she said?" asked a muse.
"That if a friend of the doctor wants a pleture,

any mother should be proud."

so in He don, where the wives of Jewish patriarchs he buried. Moseen warren braved my lets out of pratitude to Christian doctors who give their lives to serving their fe low men in this land of three faiths.

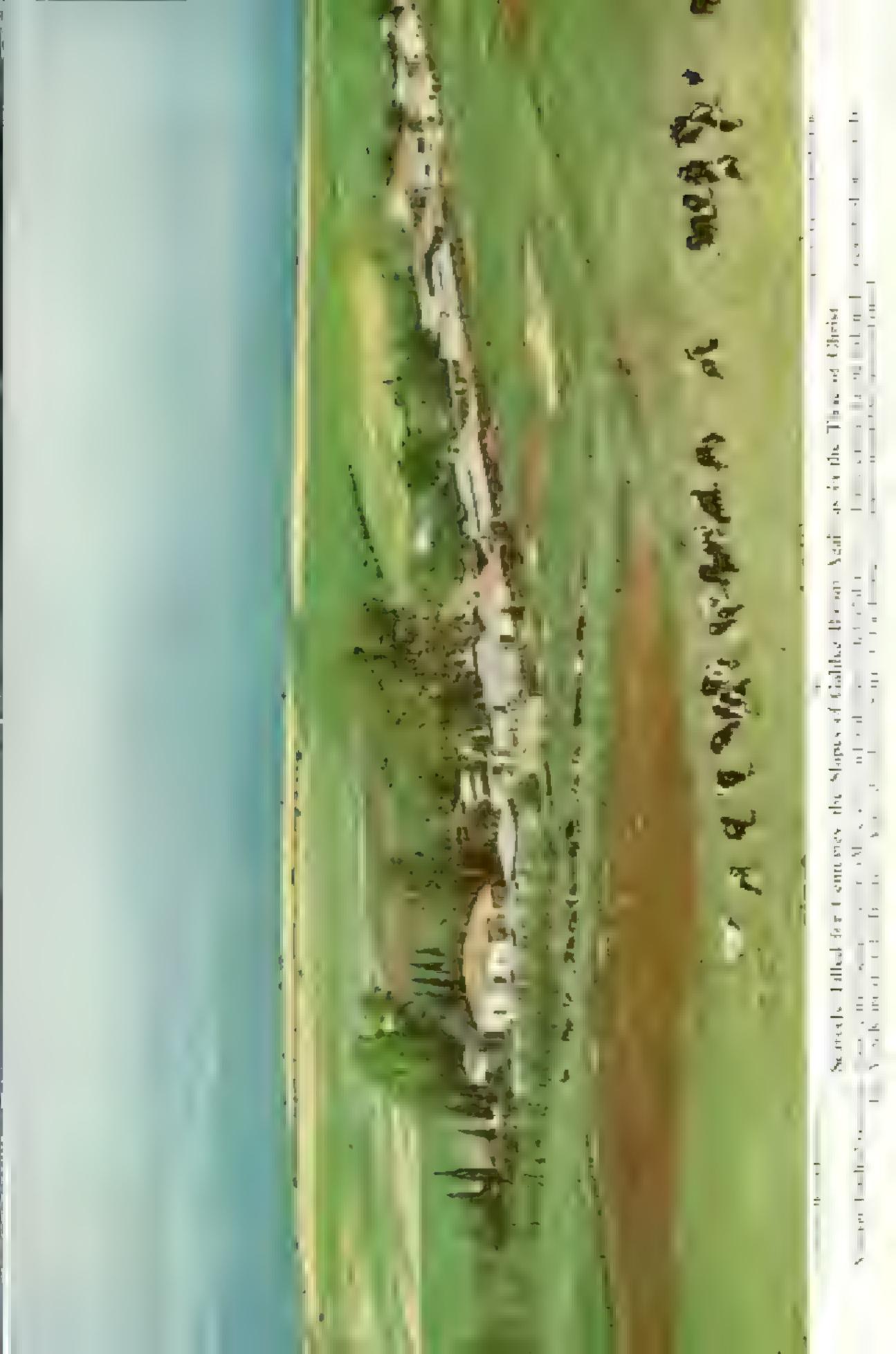
As we turned back to Jerusalem, long shadows darkened the fields. From liethle-hem on, the new road is fully and long. But it passes alone to the field where shepherds watched their flocks at Christmastime, where angels sang of prace on earth and good will toward men, and where Three Wise Men as wise men still do—followed the Star.

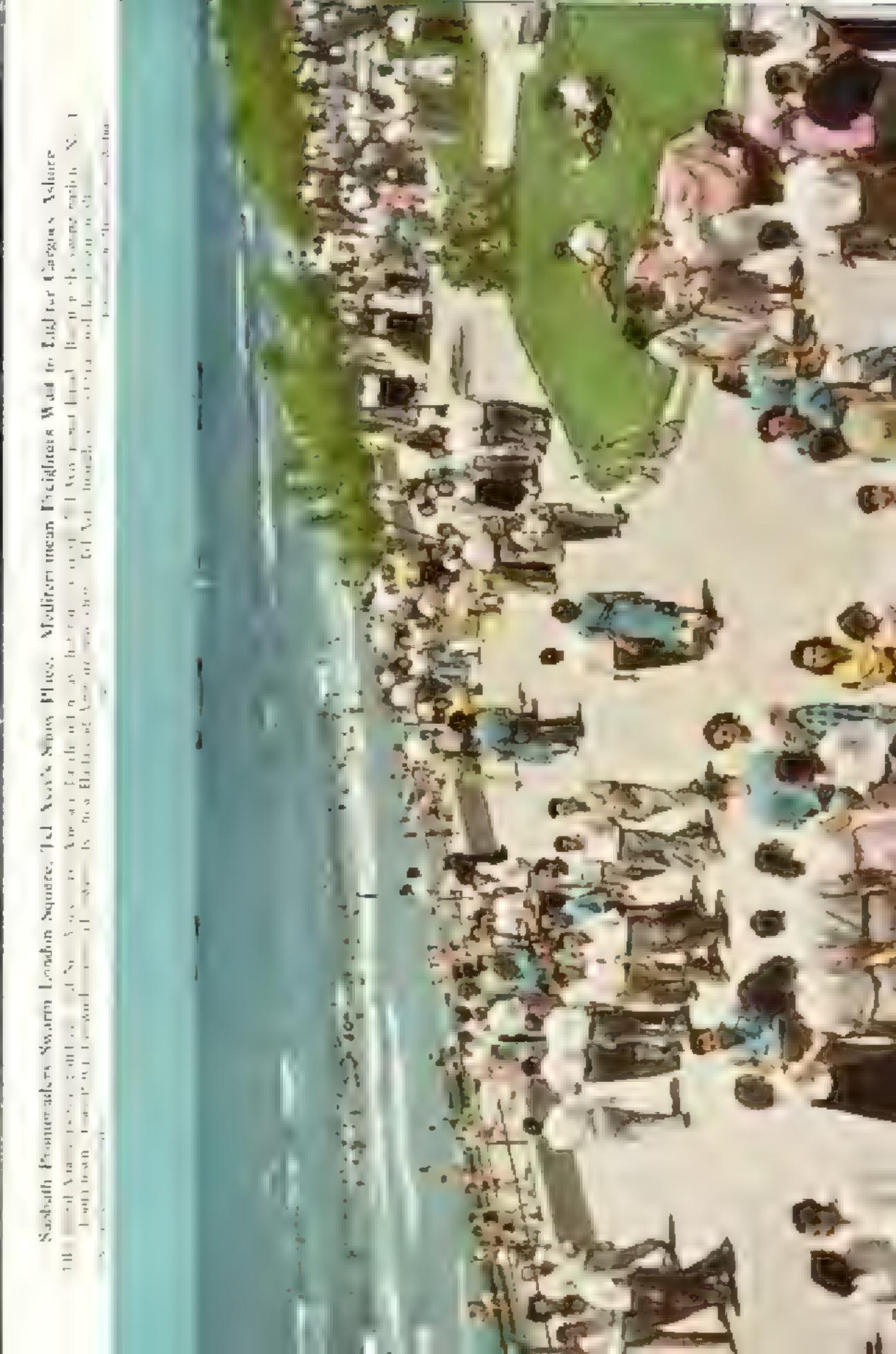
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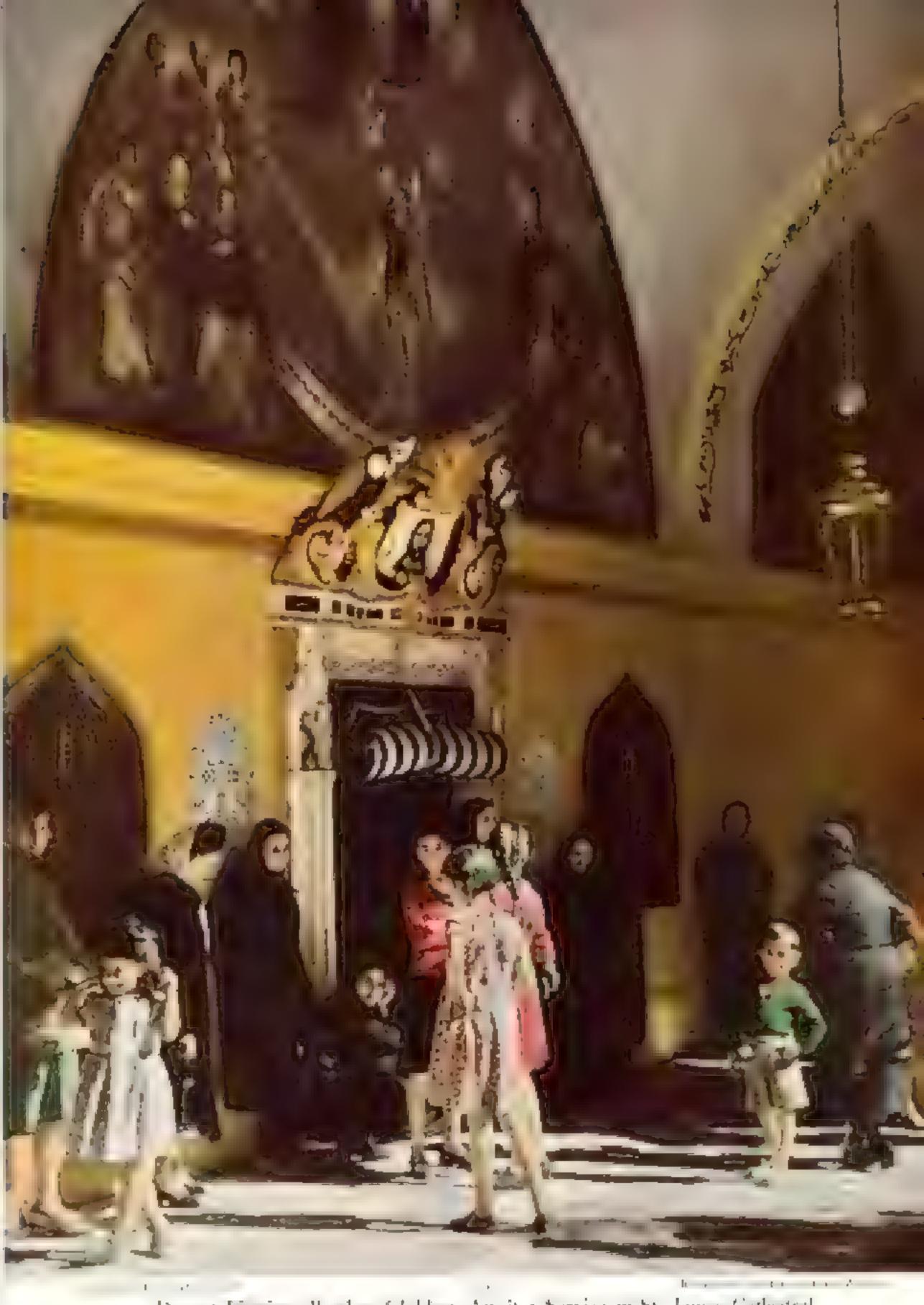
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Mid-Century Holland Builds Her Future

BY SYDNEY CLARK

Amsterdam's Schiphol field, where I had previously come to earth several times before and since the war, I poered below, trying to glaupse the condition of this field which had been utterly devastated by the ruvages of war.

When I stepped from the plane, I promptly saw how energetic is this country, the Nether-lands, which we inaccurately call ' Roband."

In the spring of 1945, when the war ended, Schiphol was a rum, seem agiy lost to the world of transportation. Literally nothing was left of it except a fantastic mass of rubble and bomb craters

Within two months the Port Authority of Amsterdam and the KLM (Royal Duich Air lines) had cleated the area, est ddished a few temporary runways, and erected on the field a wooden touth of offices and workshops around a central stem called Liberty Street.

From Shanty Town to Modern Airport

At the time of my first postwar landing, in the spring of 1948, Schiphol still seemed a sharty town, though rairing with activity. Then began the flow of Marshall Plan funds and materials to back the contary's own enormous energies

Courage, drive resourcefunces, vision by any word the sport of the X therlands is a force in the Western World. To see that sport in action is an experience. And nowhere is it better exemplined than here on Schipholfield

Today the wooden town is largely replaced by a gleaning one of steel, compare, and glass. There are 11 large languars tone named "William and Unvite Wright"); workshops where 0.000 skided mechanics and technicians server the air leets of Holland and of foreign 4s. 1018; a nearly-mill on-dollar engine test and a station building with a hard-some restaurant on the proof engine.

A the tested persons can eat, and very well, in Schiphol at one time, but these facilities are already too small, for on hig days there are sometimes 10,000 visitors, besides 2,000 passengers coming and gaing

Albert Plesman, KLM's founder and president. But a window is a two-way thing, and this one has been my window to the Dutch spirit.

Sen million presons new live behind this window, within the smal house of Holland

(map, page 752), and therein lies an almost frightening that enge to the nation. The 10,000,000 mark was passed late in 1049, though before the war the nation numbered only about nine million, and a century ago three guillion.

In the decade of the 1930's it was fashionable to worry about the probable early decline of the population. Now the warry, real and acute, is quite the other way around, for it is feared that in 15 to 20 years there will be 12 million in this congested dwelling place.

By enormous labor and expense the nation is adding a bit of land here and there, taken from the resentful was, but these small additions cannot solve the problem.

Holland is scarcely larger than Maryland; yet it has about five times the population, though Maryland is one of our more densely populated States. The country's birth rate is three times its death rate. Statistical life expectancy is just under seventy years, among the highest in the world.

At Kinderdijk in South Holland I entred an old wandfull. Its wings are now stilled as are many others in Holland, became of the far prenter effectiveness of electric pumps.

A stout woman greetest me in stoutest Dutch, and I could catch scarcely a worst of what she was saying; but I caught her smile of welcome, a warm one,

Old Windmill Houses Family of 12

Children and more children, all from the same mold, with blue eyes and unruly straw colored hair, swarmed about her. There were 10 of these youngsters; with the mother and the laborer-father they were I ving in the mill by government arrangement.

Members of the family took me to every part of their novel windmill home, slawing me toe odd dwelling centricances, such as recessed beds, crestent shelves, improvised thairs, and ludder-stairs. They showed me, too that the mill could still work if war should come again and shut off clockric power.

This Kinderdijk home was an Blostrated lecture on Holland's desperate housing short-

Holland has two abvious ways to attack her chronic problem of congestion, cruelly increased by the dwelling casualties of war, the is judgetful advancement, with new thousands of city thats (page 749). The other is land—land and more hand—for familing families.



Varsner House Bayers Bilder with Fish Bettons, Li, et Up a "Panel with," Did

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But how to get this last. Planners have the ghit of many ways, and, knowing that the ven helps it is very relp themselves to a last the plant the respect to be defined to the respect to be designed and with a last to the experience of these ways and the last to the last

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War Against the Waters

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Wall by Wall, Row up a Row, New Homes Time Stage at Eindhoven

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Princess Margriet Unveils a Statue to a Hero Who Never Existed

results and traditary purpose. If took place as that there weeks before the official carity, and while negatiations leading to the cresation of hostilities were under way.

litty thousand acres were flooled by the --- of the public dikes in two places, and de Nar-spenty beasted that they had it in hower to 'retarn Holland to the 13th of the 13th

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Fig. cranked theerfully in it, a blessed and to the Dutch, for trops do not like a twater. The widows or but due, for their mass,

in this case, fortunately drank a paloral le

Immediately apon the German retirement in May, determined Hollanders undertook the huge task of bailing out the Wherings inger.

In three months the dikes were scaled and pumping could begin, partly by means of pumps promitised from America during the war by the Dutch government of the

not return to the season with a fine the god for one or terming the late of terming. This was a margine of achievement

The nightmare of the past yields to easy dreams for Holland's future. I wan had two not on an allege past in the coolers a see war. It is expended to the coolers a see and the coolers are the coolers.

A portion of the River Schelde, soah



More than Had the North Lands' Ten William People Live Balow Ser Level

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of the Wahlbergt causeway, is being out of the other than only over the orders as

new polderland.

Fascinated, I watched the process. Willow fagots are knotted into hig raits, or sum mats, which are flooted into position, filled with stones, and sunk. Then "press quays" of clay are raised on either one and the middle parties filled with sand. The press epary on the sea side is heavily fatted hat not cemented.

Thus a pertion of the sen is contained, as diplomats would say, and the water within his new bit of Holland is pumped out. A local polder committee is furned to administer the land, under the supervision of the national government department outed Waterstant.

It we who benefit from the dike are trand, as on the politeriands throughout Rolland, according to the proportion of their property to the whole. A friend of mine in Verre, awaing about half an acre, tells me that his heal dike tax is about 52 a year—not much for protection against the seas revenge.

The pumps of 1th fland, by the way, are an increasingly potent company. In the earliest days men balled out their land with buckets, carrying the water to the rude dikes they had had and emptylog it on the eatside. Then came hand-worked mills, with makets fastened to hig whoden wheels. The windmill followed and became the symbol of Halland, as it is, in romance, to this day (page 7c.1).

Electric Pumps Replace Windmills

A few of these beautiful funt-winted mills will oberate regularly, and all are considered a sort of pumping insurance in case of war. But most have given way to electrically driven pumps. Some of these are of enormous capacity. The largest pumping station in the Norrdieest Folder can pump more than 574 million gallons of water a day.

My other example of how Holland now wages her war with the sea comes from Con-

ningen Province.

Throughout this Province, on I friesand as well, many viltages center about a hillock, often man-peacle, called a texp. In olden times a terp was the refuge of its regime. If the searestrained its passions for a few decades, grazing lands, called kwelders, developed bround these mounds, and addes tould be built in expanding, concentric clades; but one never knew when some frightful storm mucht come to undo perhaps a century of such encreasisticals.

Now the whole Province, where there are no dones to do the Job, is rimmed by massive discs, built with a long gradual outer slope

that brakes the wildest waves. And man ever reaching for new land, is actually harnessing the sea to work its own loss!

He is this way. At a distance of perhaps 400 yards from the luch field line, a modest day cake is built in the shadow sea, parallel to the beach. Every tide washes a little new silt over and within this burrier and leaves if there. Every starm of any size destroys the clay barrier, but it is easily pebulit and again the sea trings in fresh sand.

Kweller bands creen outward from the many dike, and sheep placidly crop the grass almost tour the appear waves. The grass is hardy, and gradually asmost surreptit ously, it man-

ages to machor the newly made strip

The process is repeated over and over, and at long last—this barnessing may take a centary—man bubbs on indestructible dike well out in what was the sea. This assumes the role of maker disk (watcher case), and the old oner one is called the slaper disk (sleeper disk).

How Hollanders "Stretch" Their Lund

Holland has thus made for berself a few more square unles of sorely needed land. The now of West Prisian Islands, ages ago part of the mainland, may, ages hence, again to main-

hand soit, for the gap is narrowing.

The taking of new land from sea and take is by no means the sum of Holland's strategy in her struggle for space. She trees by every means to improve that even ingeniously to stretch? the land she already has. Modern machinery and enlightened methods of eracetist in farming are a part of the program, but there is more

For example, the immunerable ditches of the country are being replaced wherever passible by a system of drains, hid four feet deep in the earth. This is a triple advantage. Drained hand yields to usidetably more than sopry hand. The ex-ditches themselves become and le land

And, finally, the size of single farms tends to increase to a point where the use of tractors and other mechanical imalements is practical. Separate fields in Holland's north used to treasure one or two acres apiece. Now in many sections they average five acres.

How Netherlanders baild roads through peat bogs is an interesting addity still unknown

to many of the Dutch thenselves.

A firm read cannot be built through Holland's squashy, below-sea-level bogs by any ordinary method, so an extraordinary one has been devised. Along the projected line a new cand is first dug by dredges that float in the canal they dig

When several miles are completed, thousands of tons of sand are brought from old inland dones, and hage electrically operated blowers fill the can'd solidly with sand,

Then the canal moves about an i more sand

is blown juto the new stretch.

Looking on, I marveled as a white traffic after thus advanced from Amsterdam to Utrecht through soggy lawls south of the capital. Dutch engineers and that the Scriptural advice about building a boose on sand doesn't apply to roads. The motorcars will come and beat upon that eval and it will fall not, though it is founded upon sand

"Happy is the land where the child harms his mother." is a seasoned Datch provers. It involves a next purpose (mether) which also short form of mucder (mether) which also

TIPRES "PHICE."

have and lever areas of Halland can now have the peat of their mother move; but the barning of mother earth's oil is an increasing bonn, and it is only since the war that Holland's earth has 5 lebted til in quantity

Oil Flows from New-found Fields

The rich region of Schooneleek, in Duente Province, burely within the eastern murches of the Kingdom, now produces more than 4,000,000 tarrels a year, about a fourth of the national consumption. This oil stimulates the national economy, and for that reason it is trassured like liquid gold (page 150).

The Royal Tranch-Snell Group took the initiative in this geologically "likely" land as long ago as 1933, and in 1939 production seemed near. But when war longed, and long before it struck Hadand, explorations were sharply halted less these fields tempt the Nazis

and ly to aggression.

Not until 1948, after the liberation, was week resumed in earnest, and the advance has been spectacular. I wo oil trains of approximately 5,000 barrels each roll duity out of Schoenebeck.

Standard On Company (New Jersey) naw participates with Shed on a hity-fifty basis in the development of the Schomebeck field and in exploration work in the Netherlands,

Americans in general still think of Holland chiefly in terms of tollps and hydrin by; of windmills and wooden sloves and Akmaar cheeses (pages 758 and 759), of the undentable charms of costume villages such as Volendam, Staphorst (page 755), Spakenburg, and others in Zecland Province.

The suppoys some Dutchmen almost beyond bearing, though the country somely needs the dollars that such beguiting things after the

"Must we go on I werer being quaint?" one

icas the Lusinessman asked me. "Must we slock about only in our tulip fields for 1,000 years more, wearing wide, short trousers and wooden Atmesses." Then, in more practical vein, "Can't you tell your fellow Americans what we really are, and what we are doing?"

"That's a tall order," I said, "but I can and will tell some Americans some things

your country is deing."

Marshall Plan Guve New Hope

The subject is, after all, of pockethock interest, since every American, directly or inorthogonal states of the Marshall-Hulp, or Marshal, Help, so vital to everything Holland is doing. This is weven into the entire fabric of Dutch economy and recovery. Some anderstanding of how it works is essential to an uncerstanding of mid-century Holland.

the April 2n, 1948, the first Marshall Planship, the Naordon, arrived to the Nether lands carrying 4 000 tons of grain. It was greated with emotions like those of a vastaway

sighting a said.

For the first 15 months of Marshall Plan operations Holland's allotment was 507 million dollars. For the second year it was nearly halved, nown to 258 million. It is supposed to taper down to zero by 1953, and every Hollander hopes as ardenly as does every American that it can actually terminate then.

At first, food and medicines were the most desperate needs. Good nourchment saved thousands of loves, and notably included food for autile, so that they would give milk for the children. Medicines, especially star tomy, he to combat the scentges of mening his.

saveil other thousands.

Some of the things Holland is new doing with Marshall Help are too little known by Americans.

American fin plate, for instance, makes possible the packaging and varily profitable ex-

porting of Dutch dairy products

American copper aids in carrying light and power of the part of Holland, and also entry to the solutions, now notice, and percent electrical, to operate fully. American motors are used in many be enotices,

American coal has belied sustain the gas services of Holland. American curbon black is used in the manufacture of rubber tires.

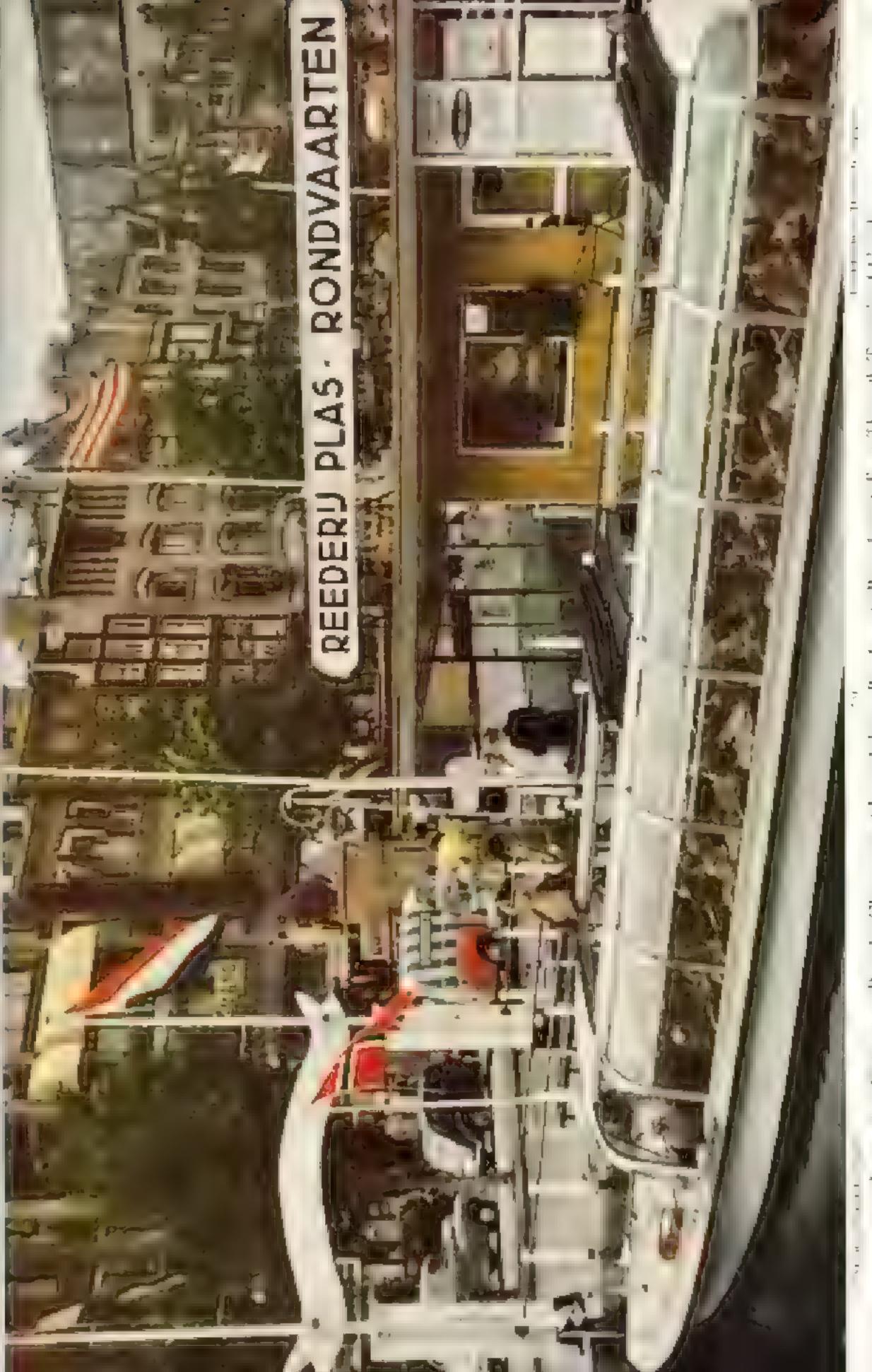
Assertican pigments and oils put color into Dutch industry, making various valuable exports passible, and into Dutch bones and Dutch life as well. Even the track of the track in the Kingdom would be of the track that shade without Marshall Help pigments.

The flow of American industrial sul, fornished for the most part free, is funneled

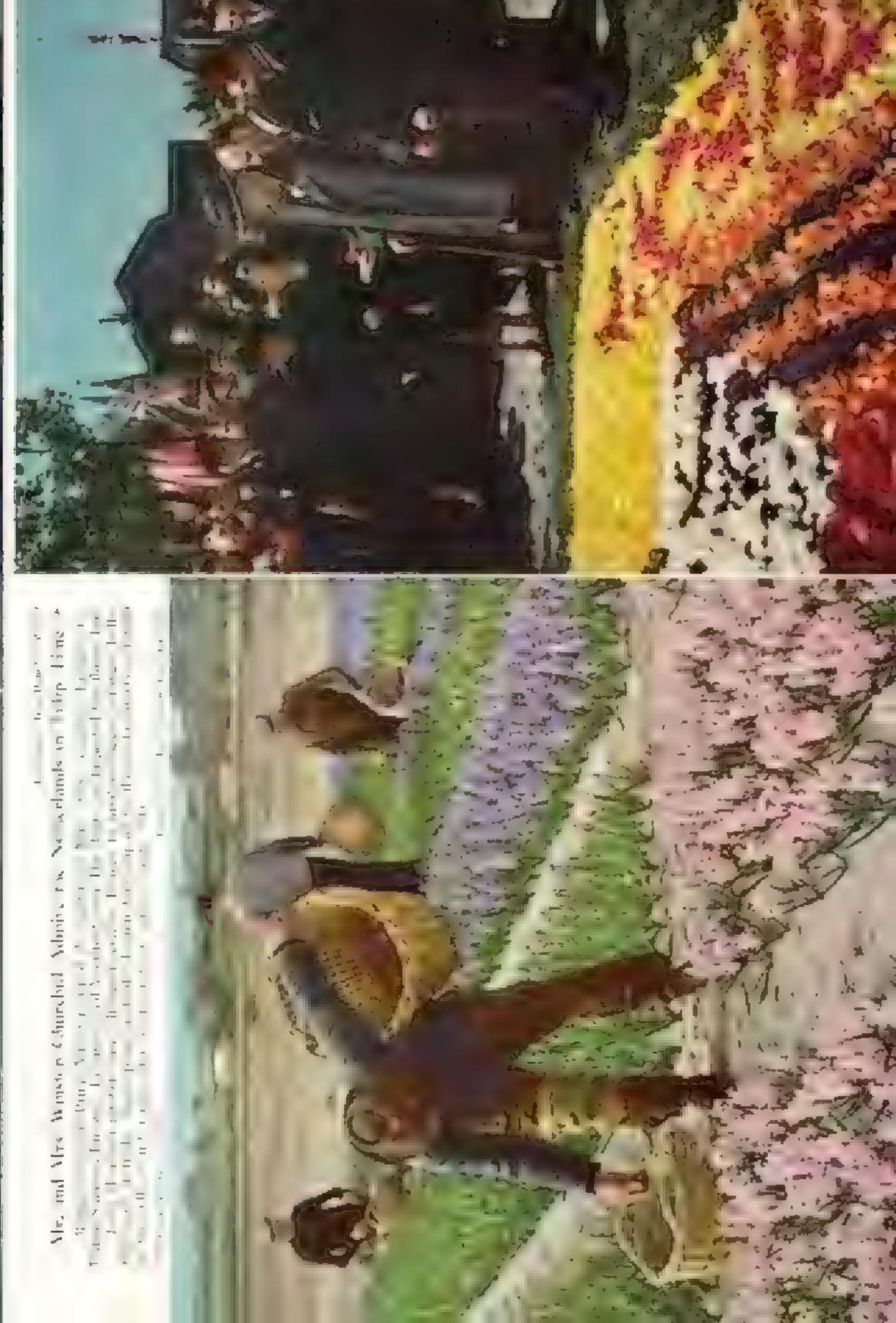


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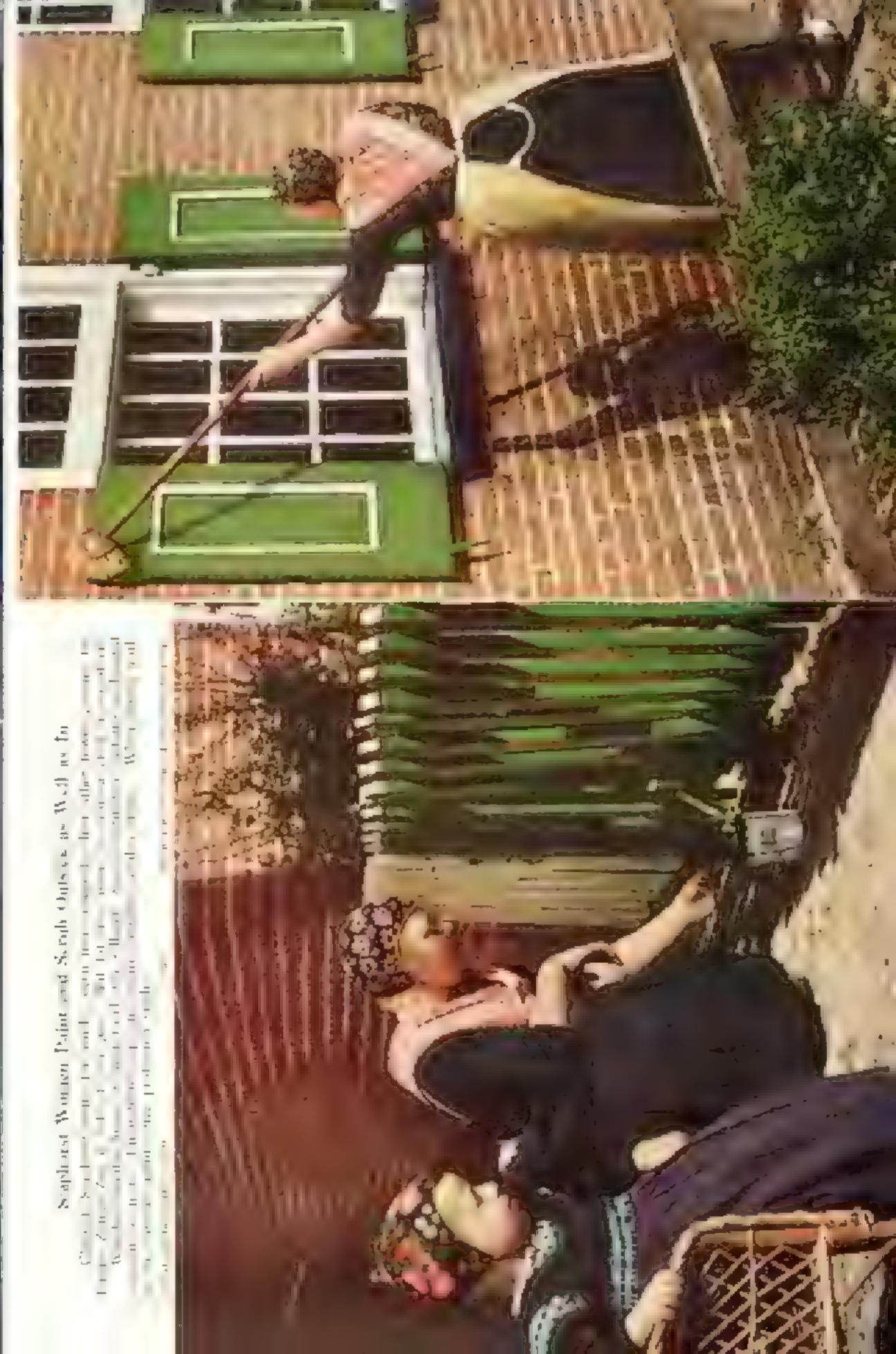
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In from a Sail on Windy Sneeker Meer, Dutch "Rainbow" Ties Up

Scheveningen Wives, Mending Note in a Pasture, Take Time for Les



through a sweated Counterpart band into which Dutch forms and the normal importers pay in Patch guilders for what they peed.

The Counterpart Fund, operated by the Netherlands Bank on let the joint direction of the Let nomic Conperatum A liministration and the Netherlands Government, thus builds up a pool of hundreds of millions of guidders which are used for recovery and reconstruction. Marshall dollars serve a 1% fold purpose: the prompt purposes of essectial dollar guods, and the rebuilding of the ration.

The projects financed by the fund offer intelliable proof to offset the continuous at tacks upon the Marshall Plan by Europe's Communist organs. All Marshall Plan products (and I kewise the U.S. tracks carrying them) bear the United States shield, with stars and stripes, and the words. For Furopean Recovery. Supplied by the United States of America.

Holland's trade fairs also publicize in a big and heartening way what America's Masshall Help is accomplishing

Holland's contribution to her own recovery is immease and in some ways remarkable. Consider one little-known fact. This shall country, contrary to my thought of it, is highly industrialized. Thirty percent of the people live in large cities; the Utrecht Fair Is a magnet for the businessmen of 70 countries.

Yet since the war there have been very few strikes. Why? Have management and labor suddenly sprouted wings? The mower, a revelution to me when I first heard it, lies in the war good.

Lessons of Wor Useful in Peace

Close cooperation was a thing both sides learned by that there of daily desiger. It was literally a matter of life and death that they should work together, for they considered that they were carrying on a continuous rear gazed action—through sabotage, slowing up, "mistakes" against the enemy within their gates. And when the war was over, both sides said. "If we could work together in war, we can do it in peace."

Parents receive what is called a Children Allowance for all children up to 16 years of age and to 20 years for these still in school

You need about 15 children, assuming you're an average earner, to double your wages," sad a statistician to me, "And this supplement applies to everybody in industry, without except on."

To the president of the Philips concern?" I asked

"To him, too. He certainly is in innustry?" This concern, called in Dutch N. F. Philips."

tiloritempenfabricken, maker of numerous modern things I esides its basic incamescent lights, is one of the world's giants, with some 80,000 employees in many countries, including America. More than a fourth of them work in Eindhovon, the contents home city (page 749). The huge plant there was repeatedly bombed by the Alies during the war when it was operating under German control

The care of old people is a remarkable part of Holland's social program, made still more remarkable by the fact that longevity is seriously increasing the problem of national over-crowding. Everywhere in the cities are beautiful developments where old people may live in their own houses, planest or entirely free of tent, booking out upon a central patin or park which the tenants themselves keep up.

Testelen's Passion Play Brases Tlausands

The traveler's Holland, in the maknown of the continuous to will a make the form of the continuous to will a make the speak, in the hands of a firmly knit organization called for short ANVV and for long Algement Nederlands: I be needed to be a firmly to be to you and me. One finds its representative in every part of Halland

Note: Les of this organization use as accorreas as as offices. One of them is to publicize a village Passion play of real excellence, produced every five years (1950, 1955, etc.) by the viscosity of Tepelen, on the right bank of the River Mass in Lindburg Lowing.

About 30 performances are given in the quintpurnal J years in an open-air theater seating 6,000. Performances rival the more famous must I Obstantine gan.

The worthy sights of Holland, truditions ly seen by swinging clockwise around the circle of its towns and Proximes, smrting with Reterdant, are far more varied and interesting than even and ittous a lders can reveal.

Rotterdam is a city of starkest tragedy, as the whole world knows, for it was the scene of Hitler's saving "warring" to those who opposed him. The story of its present resurgence is a classic. The city is roming look, despite an ironical situation, for Rotterdam looks and past have, for her animonal life normal trade with that country, Germany, which shade with that country, Germany, which shade the testerough her.

Despite this lack, the port of Rotterdam home of the Holland-America Line, is again one of the stimulating sights of Europe.

"How to this tenovery possible after such a feurful heating?" I asked myself over and over as I rode the port's complex water ways for hours in a bunch (page 774)

The spirit of Holland gives the only answer. This sengiori simply refused to roll over, it trale, and die. The Nazis systematically looted it and finally blew up practically all the part equipment; yet already fivests of huge cranes are seen against the sky, and there is a vast thesting drydock, named Prins Bernhard, with

a lifting capacity of 30 000 tons.

Here are shippards of every sort -still thers are at Austerdam, Hordrecht, Schiedam, Maardingen. I not red an odd product of one, a fancy white ferry ready to set out. for the Bosporus. On its gleaning paint I read: Ametololidam Istanbul.

Before the war nearly 15,000 ships a year entered this part, an average of one every 35 minutes. In 1949 there were 11,668, conjugat

of a major marvel of recovery.

From Delishaven, today a mere creek in the Rutterdien point area, the Pilgrita ship Speedweell sailed on July 22, 1520 bearing a remarkable corgo of ideas "made in Hul-Lind," When the Specific oil later proved unseaworthy, some of her passengers made the voyage to the New World in the May flower.

Ideas "Made in Holland"

 the sojourn in Molland of this group. of Pilgrims, and to Dutch settlements in America, we owe in part some of our most cherished has ituations. It is worth listing some of these ideas "made in Holland," since few Americans are aware of the debt cur way of life owes that country:

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Recorded to the Land Bernie

ित्ताको होहर लेखा को स्थोतास्य अध्यापम वस्तर प्रमाण की है।

Leiden, with its melow but vigorous intel-Rectanlism centered in its University, is at il an incubator of ileas. Most of them provesintolerable to the Nazis, who cheed the Eulversity in exasperation carry in the war, even while they were making a great show of benevolent friendliness to the Dutch people.

The Hague ('s Gravenhage), with its beach satellite Scheveningen (page 770), is affection- I. direct quae accurately, cultra a "village" of over half a million inhalitaits.

It is not the Capital of the country-Amsterdam has that rather hollow title-but it is the seat of government and the wellspring of law. Centuries of jealousy route both cities unacceptable on ill family the interioper Lanis Bonaparte, Supedem & buther, in 1806 cailed Ansserdam his royal Capital,

The Hang of Change, after Napoleon's dewrifall, continued to call Amsterdam the Capital, but The Hague was said the royal re-intence and the meeting place of Parlia-

ms m

So it is to this day, though Queen Juliana has let it be known that she will continue to live, as she does now, in her country pulace at Soesh ijk, neur Hilversum. Her inauguration took place, by law, in Amsterdam, but she opens her Parhament in a glittering anmual September ceremony in The Hague.

beauty is an absoute essential, like food and rirink, to virtually every Dutch lacusehalder, and but least in the war-pattered but still dignined residential city of The Hague

This statement is not merely pleasant flattery, but an obvious fact of Holland's life. One sees endless evidences of it, but let dowers in the windows be our witnesses. In every part of the country, from Brabaut in the south to Groningen in the north, they stand in literal millions to give their testimony.

The revived Hague, no less than lucky unhometed Amster fint, has music in its soul as well as flowers. It boasts within its Municipal Museum one of the world's greatest collections

I musical instruments.

The commercial flavor fields of Holland lie mostly in the low, tith lands between The Hague and Amsterdam, especially north of Lenien.

They have often been glowingly described. along with the tulip's strange, romant'r lasbury, and still more after photographed, yet nothing can match the reality of the April hralliance of their endless acres of color (pages)

757 and 704).

To growers these fields are a serious, worrisome thing, for their livelihood depends apour the socrassful large-scale international mark keting of this beauty (page 748). To further this business, growers have established at Lisse, in the beart of the flower sector, a Laboratory for Bulls Research. This picturer institution is thirtly concerned with combat by plant diseases, so that other countries may have no reason to quarantine such products

At the Li-se laboratory I was fold that juntantine troubles are now sharply declaring, and that internal onal cooperation in control of pests is increasing greatly.

It is a curious thing that "Irroken tulips." with their wonderfully fancy colorings, the type which commanded the most fabilities



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is a sort of Washington. The colors of this metropoles are infinite. Some of them come from the concentral canals (page 756), rouns of by tree-shaded streets of splendid 17th-century haildings; some from the music of the city's world-famous Concertgeboom orthestm; some from the inner the of diamonds.

In the summer of 1949 a wonderful Diamond Exhibition was held in the Diamond Itoarse of Amsterdam. With throngs of jewel merchants and the merely curious, I wandered about amid millions of dollars' worth of gents for this exhibition was of impressive proportions and displayed many real gents, as well as models of all the world's best-known diamonds.

Rows of cutters were busily at work fashioning new jewels for trade. Only a lew polaremen and presumably some plain-challes not mixed with the crowds.

The work of the cutters is a wonder of human concentration and skill, for a single false blow with the jeweler's humaner can cost hundreds or thousands of dolkers. The largest and the smallest diamonds attracted perhaps the most attention. A model of the celebrated Cullinan, largest ever found, showed exactly how its 3,100 carats of splen-lar had been cut in 1908 by Joseph Assence and Company of Amsterdam.

Grovingen a Versatile Province

The outer circle of Holland, the Netherlands few people know, is full of evidences of the country's plantering spirit, its capable for development.

Consider Groningen Prevince. In this northern outpost all sorts of manufacturing enterprises use making industrial history.

Near Noordbrock mount iins of home-grown straw are being worked and pressed into wall-board for prefabricated home interiors.

It Hangemed a continuty with a branch in Passaic, New Jersey, is making potato starch that it claims is of use in "every in-mostry except banking."

At Bedom I saw an enarmous plant for dairy products, one receiving more than 142,-000 000 pounds of fulls a year from 2,300 termers who share in the enterprise on a cooperative basis.

Few Americans have here Inf. Morele, Hone clo, Enschede, in a for corner of Overijsel Province. But they are big, busy, industrial centers. Throughout this region, as in many parts of Holland, so-called home-hailding unions are receiving from the Government 50 percent boars for creating good, low-rent workers' dwellings

The unions pay 7 percent a year, of which 2 percent is for upkeep, 5 percent for interest and return of principal. The meded sums on collected form the modest tents. In about 50 years the unisted own the houses free and clear

In Almelo I first came upon an interesting experiment in two-way international relations. Almelo and Hutchinson, Kansas, have adopted each other as "contact towns," to the social and business benefit of each, Similarly, Enschede and Memphis, Tennessee, have adopted each other; Nymegen and Albany, New York; Breukelen and its namesake Brooklyn.

There are many other examples of this mutual-adoption principle. Though at first the practical nids have flowed calefly from west to east, some advantages are scaping from the Old World to the New.

Apoldoorn is a lovely garden city which has captured a special service and made it big lusiness. Profiting from the tematkably soft water in this whole region. Apoldoorn's oft public laundries take in a large part of the washing of Holland, serving especially notels, clabs, and public lastitutions.

Consider Incerated Arabem and Nijmegen, town that the 1 km is not at house of the areast white crosses and stars of David-British, Canadian, Polish—til around. The sole American concept, from which many of the bodies have now been brought home, is at Magnaten, near Masstricht.

These martyres towns are reming back. They too are building their futures. The wheeked Rhine bridge at Arnhem, a symbol of British value, was completely rebuilt by 1949.

The Nijmegen bridge across the Waal was never destroyed, thanks to Jack and swift action

both of the above towns and this whole battle sector form an endating symbol also of the Durch nadeoground, which had a valur at its own. Some of these homes were executed by the Naos, even as Germany surrendered, in a last shameful gesture of hatred,

The Business of Making Bells.

Consider finally, in more cheerful wein, the bell founders of Helland. These makers of cariflor bells should not be considered quaint or unimportant. They are contributing to the future of Helland, for chimes are almost as essential as flawers to the spirit of her people.

In November, 1949, a Heil gerice for edry

^{*} See "Singing Towers of Heliand and Relation," by William Corban Race Nature & Generalized Managers Marite 1925



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Exploring the World of Gems

BY W. F. FONHAG

Head Constant of Geology, L. S. National Mose im-

king of gems is this hard carbon, glittering expensively in settings of gold and placinum. Yet it is a close relative of humble graphite, the black "lead" in a pencil;

But while graphite is so soft and areasy that it is used as a lubricant, its tough, aristocratic cousin can be out only with another diamond. Through such whites has Nature, during sons of slow alchemy, created the mineral crystals which yield damonds, emeralies, sapphires, rubies, and a bost of other preclass and semiprecious stones.

So layishly has Nature endowed gems with color, hister, clusive lights, and fiery sparkles that men have toiled and strugg ed to possess them almost since the beginning of recorded time. Georg have fewers prominently as famous crimes, commones, and wars

Rare stones were cut, carved, and polished in Babyionia several thansand years before the birth of Christ. Emerable are mentioned in the Presse Papyrus. In it a toyal councilor to just the sea-green jewels as less d'incuit to find than goor, words. In ancient China the etigin of jade carving Is lost in antiquity.

Foriay, as in centuries past, precious stones still are used mainly for personal adarminatal in some parts of the world people continue to wear them as amolets and talemans, to ward off evil and bring good lack. Over the years a formanble body of lore has grown about the hits of mineral, globes of shellfish contration (pearls), and hangs of fassilized resin (amber which make up the colorated world of gents

An early Persian legend has it that God, when the even ed the world, made no "uscless" things such as precious as nest. But basan, ever eager to cause trouble and noting that give leved the gay flowers in the Garden of Fiden, undertook to imitate their brightness and color out of camb. In this way save the legend, were produced precious stones to excite man's avarice.

Some Jewels Linked with Misforme

Violent death and ill lock are associated, through superstitions oracle with India's Keli-poor Diamond, now among the British crowa pewels, and the formus Hope Diamond (pages 781, 784, and 791), now owned by a New York dealer.

with curative and supernatural powers. Cor-

tain stones, he believed, would preserve him from demons, vampures, and kindred terrors takers would render him from the to sorcery or confer the powers of witchcraft. With still others, such as a polished sphere of take crystal, he could foreted the future, review the past, or evoke pictures of events taking place at a distance. Protested by mystic influences of gents, he feared wither plague our posson.

Virtues in Gems

An almost inexhaustible list of virtues was attributed to gens. Some were suggesed to produce the favor of the great; makes make their owner amiable, wise, strong, and brave, some protected han from five, lightning, and tempests; others from danger and disease.

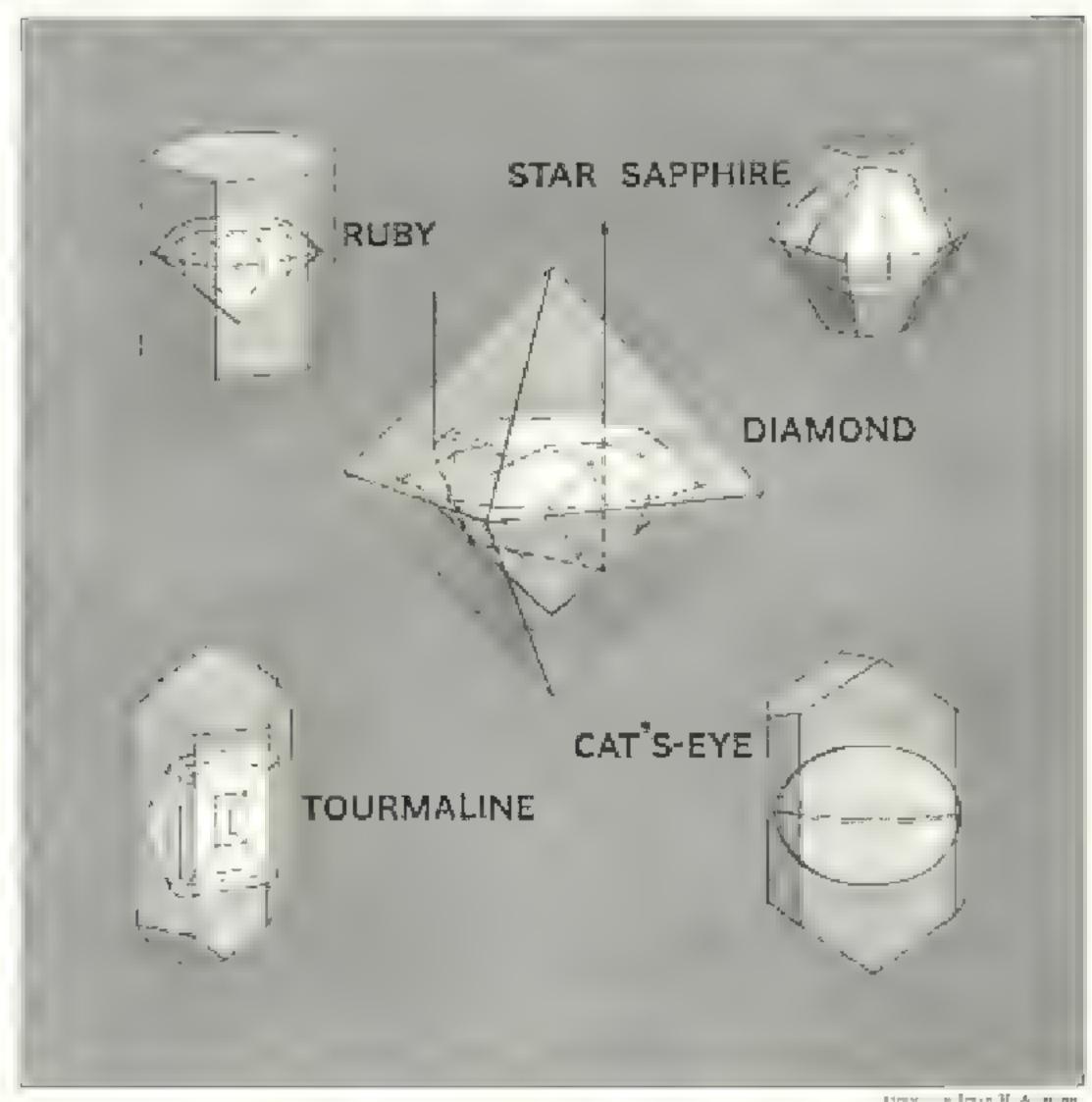
Good or eval supposedly inherent in gems were also linked with the planetary influence of days of the week. Lettow gems were appropriate for Sunday wear. Monday was the moon day, when a lawhite stones except the diamend were to be worn. Thesday, the day of Mars, was the time to wear ted stones such as garners and rulnes. There's contained and rulnes. The mark and the gem for briday, the day of Yems. The ciamond was reversed for Saturn's day.

A particular stone was regarded as especially potent if when in relation to the owner's natalmenth of sign of the stollar. This helief survives in the stoll tashionable custom of wearing torthstones, ranging from garnet for January to turquoise for December

The Anostles were represented symbolically by previous states; jasper, St. Peter apply of St. Andrew; thalcetony, St. James; of ill St. John: sandonya, St. Philip: care, St. Matthew; beryl, St. Phonos, thrysoprase, St. Thaddeus, typaz, St. James; the Less; h. cinth (essentie), St. Simeor; ametryst, St. Matthias,

Market was the emblem of light, parity, falth, innocence, joy, and life, Worn by women, white was symbolic of chastity; by a ruler, of humility and integrity. Red signified pure love and wisdom: in another sense it stood for passion love of evil, and hatted. Blue indicated trath, constancy, and fidelity; ye dow conti, stand for either totalty or inconstancy, to say nothing of je dousy and deceit.

Genes were also supposed to indicate the



Dull Mineral Crystals, When Gut into Georgetsiand Laures. Yorki Glowing George

To brong out atmost bril succe lapidars i arhive premote stones to take full advantage of fight's effects. In a typical cut, diamond's opticions, crystal is seems along planes in lighted in stated likes. Facets at the figilized atoms will give off payried sparkles from ight my tollowing park shown by errow. Bully, out verticals will be precon-blood sed in transverse cut would yield a land nob-sed but. Mahutides of time all productions in their state paths of the deep of the december and the second state of the second state of the line and chrysobery), the latter producing calls-cye, also call for special techniques.

wearer's state of health. If a stone turned rault, aparque, or or lerkess, watch out for danger. or death). Dreaming of gems was a good omen. So was seeing or bandling them on the eye of a journey or at certain phases of the more.

Singe no other mineral equals the diamond in bardness, range of color, or laster, accients ulso regarded it as most powerful in spiritual influence. As a symbol of constancy, purity, and innocence, it still flashes from engagement FRIILS.

Mary Queen of Scots owned three · ...monds

which were believed to be talismans against danger, poison, and "cellicke." Unfortunately, mone of her gens had the power to ward off the hearisman's ax'

In Burma the akument and arsenic are called by the same name, Arm, on the ground that both are fatal poisons. A similar belief once existed in Europe. Benyonuto Cellini, the swashbackling 16th-century goldsmith, relates how an enemy hired an apothecary to pulverize a dram and in a salact intended to poison Cellini. With an eye to economy, the apothecary solomn ted a be. . and thus saved Callmis lae.

As with a little gems, a diamond's color, bulliance, and luster the qualities which make it valuable are determined by the atomic structure of the hist creatal. Often such characteristics are bidden in the heart of he crystal.

History's largest dinmond, the Culturn, 3 105 carats before cutting, was so unimpressive in the rough that Edward VII remarked, as he beld it up to the light, "I should have kicked it asize is a lump of glass if I had seen it in the mad,"

Catters Form a Select Group

To hang out hinden beguties is the job of the expert hapidary With diamonds and I the stones he these line by grinding and polishing facets, ar ranged with mutbematical precision so as to take full advantage of light's effects. Some stones, such as ofsits, rubies, and sapplifes, renall are cut and pulished ex cabocken. or rounded, without face(s | opposite).

The men who cut and polish directed form a small, bords, aristocracy among those who work with pre the restrict of the present the present the cutters instituted being called just that; those who work with besen stones are gen cutters or Lipidaries.

Antwerp and Amsterdam have long been the leading diamond-cutting centers. Some stones of high quality care now cut in the laided State.

I trade fair in Amsterdam recently exhibited a masterpiece of diamond cutting. The stone was smaller than the head of a pin, and was described as the world's tiniest duamond—but it was cut with 58 (nexts)



Foreous Gems Grace a Relle of the Ball

By arawing four, Mrs. Thomas Plapps won the prix the of wearing the discount blue Hope Diamond at a New York carry or the the prix the prix the fit above the larger Jonker Diamond. The south price of the second discount for the second discount fo

Pline remarks that the diamond was known only to kings and princes, and even to few of them. The stones of the ancients came from listia—the Grand Mogul, the Kob i noer, the Mono of the Mountains, and others of long and bloody history. A few important ancient stones also came from Botnes.

Dimmonds in Bruz'l and South Africa

In 17.7 are at who had become familiar with rough a propose in India recognized these stones in the unchine a for gold in family and the State of Manas Gerais became an important some during that early period. It has pro-cased the Southern Star, the Patrochino



No vierg at Perfection, on a misse keeks Offerener



The state of Maller dap Hungas as Dastmoode Schullung.



Burning Sweeps I di Grand

the Rivile Village, and other famous stones *

The most significant discovery of a diamond coursel in 1866 when a Boer farm lad picked up a curiously glittering pelible on the vell near Kamberley. From that find sprang a South African industry that has produced more than a lubium dollars' worth of diamonds, f

When Notice scattered chamer its over the earth, she did not overlook the United States. Near Marfresslero, Atkazesas, they have been recovered from rock similar to kimberlite, the mother rock of diamonds in South Africa (page 804). More than 200 diamonds have been recovered from gohl-mine slaine boxes in California. Other States yielding a few are-Virginia, North Carolina, Kentucky, Indiana, Texas, Idaho, and Oregon.

Curious finds of diamonds are those in the glacial drift of the Great Lakes region, parficularly in Wisconson. This leaves little doubt that diamonds were brought south by the glaclets. By following the known glacier puttes, the region between the Great Lakes and Hudson Bay is indicated as a potentially

rich diamond field,

The most unitsual continuous of diamonds is from a celestral source; small dispropris are supprinted found in meteorites, particularly in ha iren from Moteor Crater in Arizona

During 1949 the world produced two-andthree-quarter tons of diamonds. Not all were fine genus. Those as a suitable for cutting serve at drafting and altrastive tords, wire-drawing dies, and in many other indistring uses where

extreme hardness is desirable

Of the diamonds produced in the Belgian Congo, the world's largest source, only about two precent are suitable for genus. The yield of Tanganyika's mines is 80 percent gemquality stones. Fine, thweless diamonds constatute a smal, proportion of the gem stones Recovered 3

Caloriese Dismonds Most Desirable

Coloriess dumonds, sametimes called "blue white," are generally considered most desirable, but colored dismonds, usually pale yel-I've be smoky brown, are for more common.

Generally, relor detracts from a diamond's beauty and lowers us value. But some diamonds are so beautifully colored that they command high prices. These are called "fancy stones," Fine golden yr now, orange, rose and bivender pink, agramatine to pale supphire idac, green of various tents, and other desiraal le stades are included

Most famous con red stone is the desponder 44% carnt Hope Diamond. Finer, and more valuable, is the rich green Hresden Diamond. The Tillany Diamond (page 791) is a rith

orange yallow. Recently Princess Elizabeth was presented with a deep-pink stone of 54 carats, which was cut into an exquiste brilliant of 23 6 carats.

Before the discovery of America and the exploration of Africa, the principal source of precious stones was the Orient. Many traders, luted by the passibility of rich traffic in these objects, hazarded for dangers of the journey east to obtain there; some have left behind accounts of their adventures. Best known is Marco Polo, who left Venice about 1271 and made his way to the court of Kullial Khan §

Jean Baptiste l'avernier, a French geogtaphes who went to India in 1638 to traffic in precious stones brought back a huge blue diamond, which he sold, together with 24 others, to Louis XIV, le Grand Monarque. in 1668. The Tavernier Blue was recet and made part of the French crown jewels. They were stolen in 1702, not the Tavernier was not among the few gents subsequently restored. Later it reappeared, much reduced in size, as the Hope Diamond.

Many of the amtient Indian diamouds, such as the herei-more, have had strange histories. According to legend, the Koft i none was distovered some 5,000 years ago in the Godavarl River, but the first authentic record is in the mem irs of Sultan Baker, who wrote in 1526. Biketmajit, a Hindu, who was Raja of Gwalior, had governed that country for ap-

ward of a hundred years,

"In the battle in which Thrabins was defented, flikermajit was sent to hell. When Humanian arrived. Bikermajit's people attempted to escape, but were taken by the parties which Humaium had placed upon the

watch and put into custody.

"Of their own free will they presented to Humaium a tribute consisting of a quantity of Jewels and precious atomes. Among these was one famous diamond, which had been acquired by Sustan Almed-din. It is so value able that a judge of dram ands valued it at half the daily expenses of the whole world."

* See, in the Nathukat Georgeson: Managers "Brazil's Land of Moregule," October, 1948; an ["Rtaed's Potent Weapons," January, 1944 anth by W. Select Moore

t Sec. in the National Greenwhelm Manager to a That Gold and Diamonda Bufft " by W. Robcit Monry, December 1942, "Under the You it African I men," by Melville Chater April, 1931; and "His mond Mines of South Arriva," by Gandner F. Will liams. June 1906

I See "Britain Tackles the East African Bush," by W. Robert Moore, Navious Grosseppe Magazine,

I See "World's Greatest Overland Explirer" by I CHE to be on a ration of the contract of the Nucley field



Indians a Thousand Years Ago Hand Polished and Flint Dri led These 2.8 0 Turquese Buils

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Frequently the corundum crystal contains many minute inclusions that have arranged themselves in the hexagonal pattern of the host crystal. These inclusions will sometimes reflect light to yield a six rayed star. The store is fashioned by the hipidary to bring out and intensity his pattern. The result is a star supplier of star ruby (page 799).

A 12-rayed star ruby from Ceylon recently. was exhibited in the Mergan Gen Hall of the American Museum of Natural History, New

York.

Pure-red raines weighing 10 thrats or more are care indeed; supplieres may exceed 100 carats or more in weight. Some found in Caylon were reported to have weighed one and two pounds,

Almost since the dawn of history, Burma has been the principal source of fine rubles. The producing area is about Mogak (page

7831...

The Burmese mines produce other gems as well, particularly spinels, or balas rubies (page (90), and supphires. The rubies are of the linest quality, rich pigena-blood red in color. while the supphires are superhat inferior. In the trines of Thailand, however, the reverse is LEJ C.

Star Suppliers from Ceylon

Ceylon is rich in suppliers and other preclous stones. It is the orly source of the rure orange paparad-cha, and it also yields an abundance of pink, yellow, brown, and violet stones, as well as large star supprices.

In the United States, Montana has produced small, fine, steel-blue stones from mines at Yoga Gulch in Jaduh Isasia County, and pale stones of many colors from gravel bars in the

Missouri River

Many a large 'ruby' mentioned by early writers has proved, in later examination, to Le a balas ruby, a form of the numeral spind. Such is the Black Prince Ruby new in the front of the British Crown of State. It was given to the Black Prime by Pedro the Cruek in 1367, and was subsequently worn by Henry V upon his heart terrown at the Battle of Agineourt.

"The famous "raby" which Girt vas III of Sweden gave to Catherine the Great once was considered the finest in Europe. Now it is known to be rubellite, a red variety of tour-

ma ine.

Another large balas ruby, which makes or acted as true runy and is now among the firstish crawn lewels, once admired the saidle of

Runjit Sangh, If welghs \$52 carats and bears the inscriptions of the famous Mugals Jahangir, Shah Jahan, Aurangsels, and Mchammed Shah.

Few indeed are the true rubies of time quid-

ity exceeding 25 carats in weight.

the sapphires, on the other hand, are not uncomment. A stone weighing 951 carats is said to have belonged to the kings of Burma. Arather, of 210 carats, is included in the Russum state treasure. Among the finest star stunes are the Star of India, a 563-carat star sapphice, and the De Long star ruby of 100 carats, new in the American Museum of Natural History (page 799).

Rubies and sapphires are won cutirely from gravel deposits or from the residual soil, where they have been released from their mother rock by weathering. The earth or gravel is brought to the surface through pits suns to the gem-bearing layers, the material washed by hand, and gents plaked from the concentrate. Months of lagor may pass before an

impurtant stone is found.

Science Produces Synthetic Gents

For centuries man has instared the precious stones in cheaper materials. With the adventof modern science he has attempted to reproduce the natural stone artificially. In the case, of the ruby and sapphire he has been eminently. successful. Synthetic rubies and supphires, indistinguishable from the natural stones except by means of their mittate flaws, are now being produced by the millions of carate annually (page 810).

Much of the synthetic material finds its way into anlustry, but large quantities are used in joweary. Strangely canagh, this enormals production of artificial genes has not inducated.

the value of the natural geom.

Even the striking effect of the star stones can be reproduced to startling perfection. A haver of gens need not be unduly concerned about this invasion of the gen market by the ardificial product, however, for a competent jeweler can distinguish the natural from the

Beryl, a silicate of beryllium and alaminam, is not an precommon stone, but is rarely found in the color and clarity requisite for a precious gent. The ordinary mineral is the important ore of the metal beryllium. Almost always it is found in crystals, sometimes weighing 10 tensor more. The common form is that of

a six-sided prism.

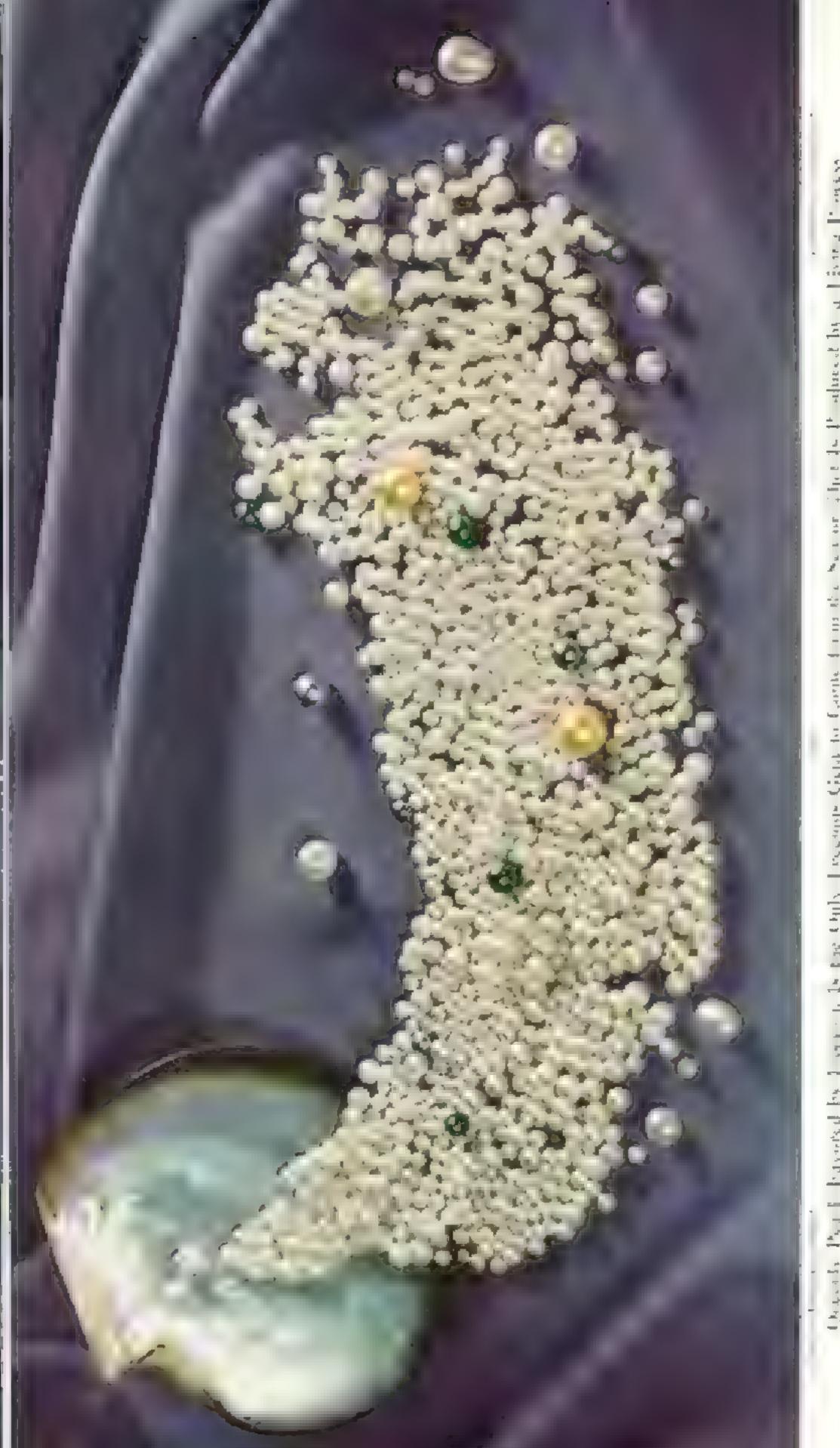
man-made gem.

Like cort adam, the color variations of this miretal base received discit at gent names. hine green stones, out med by chronium, are beautiern of alite varieties are rmefaids.



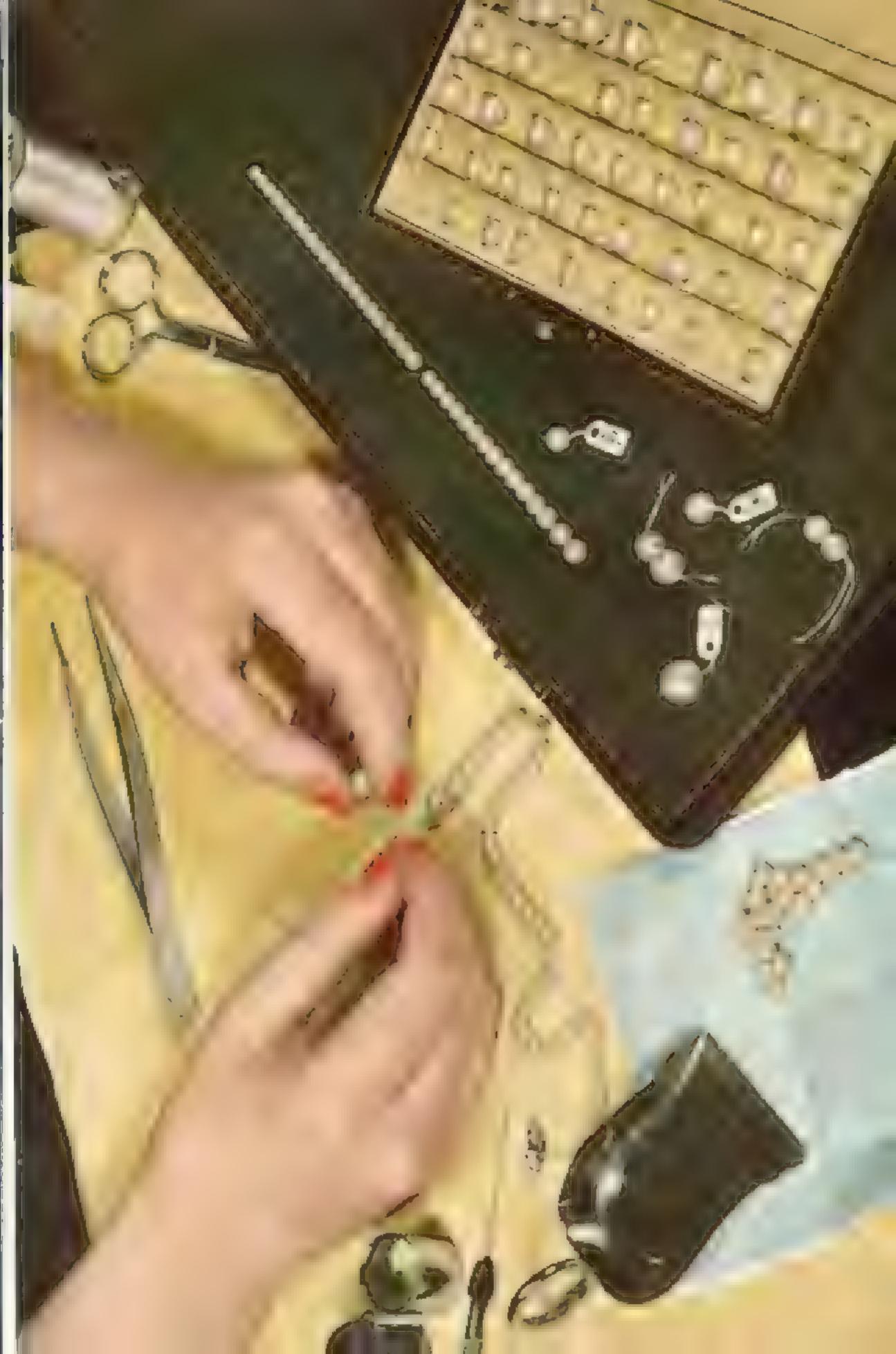
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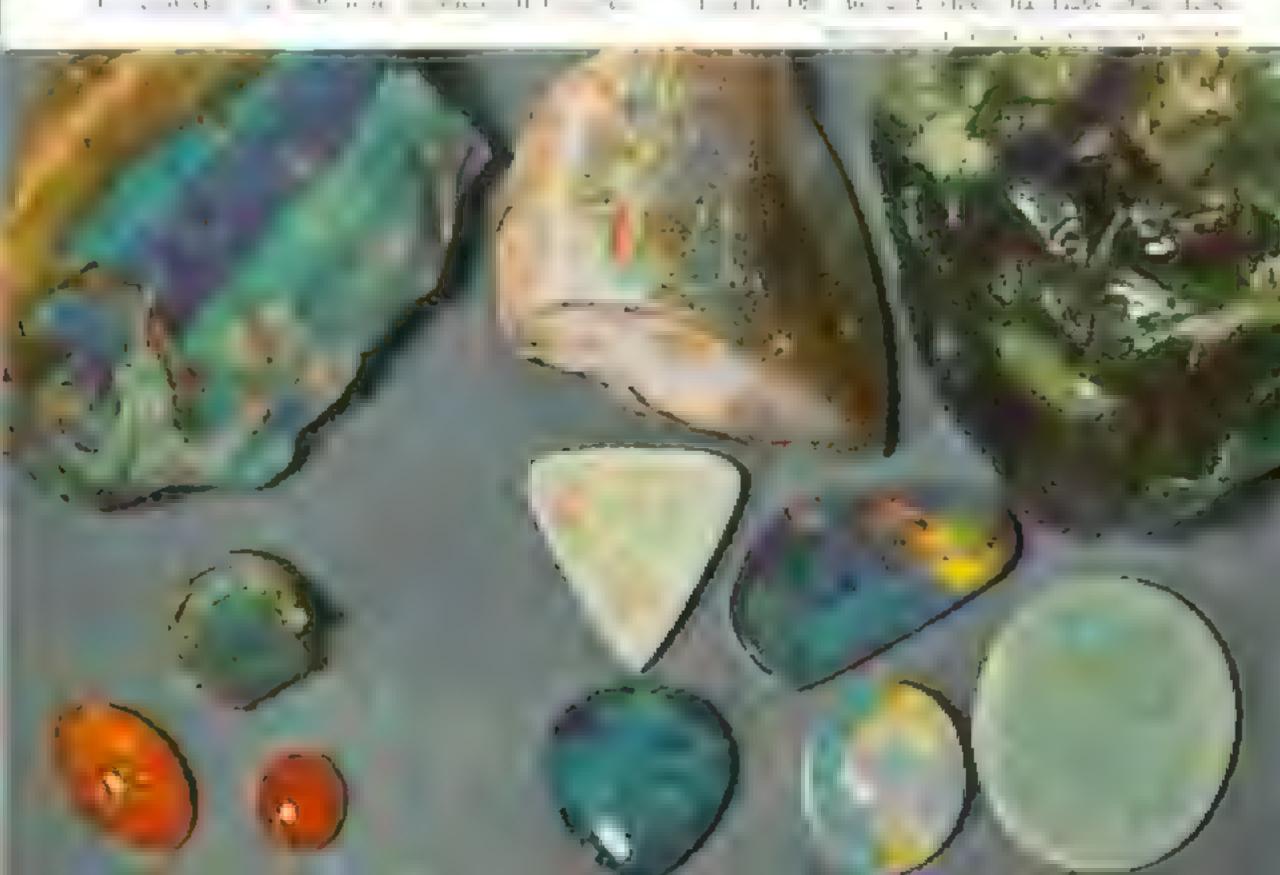
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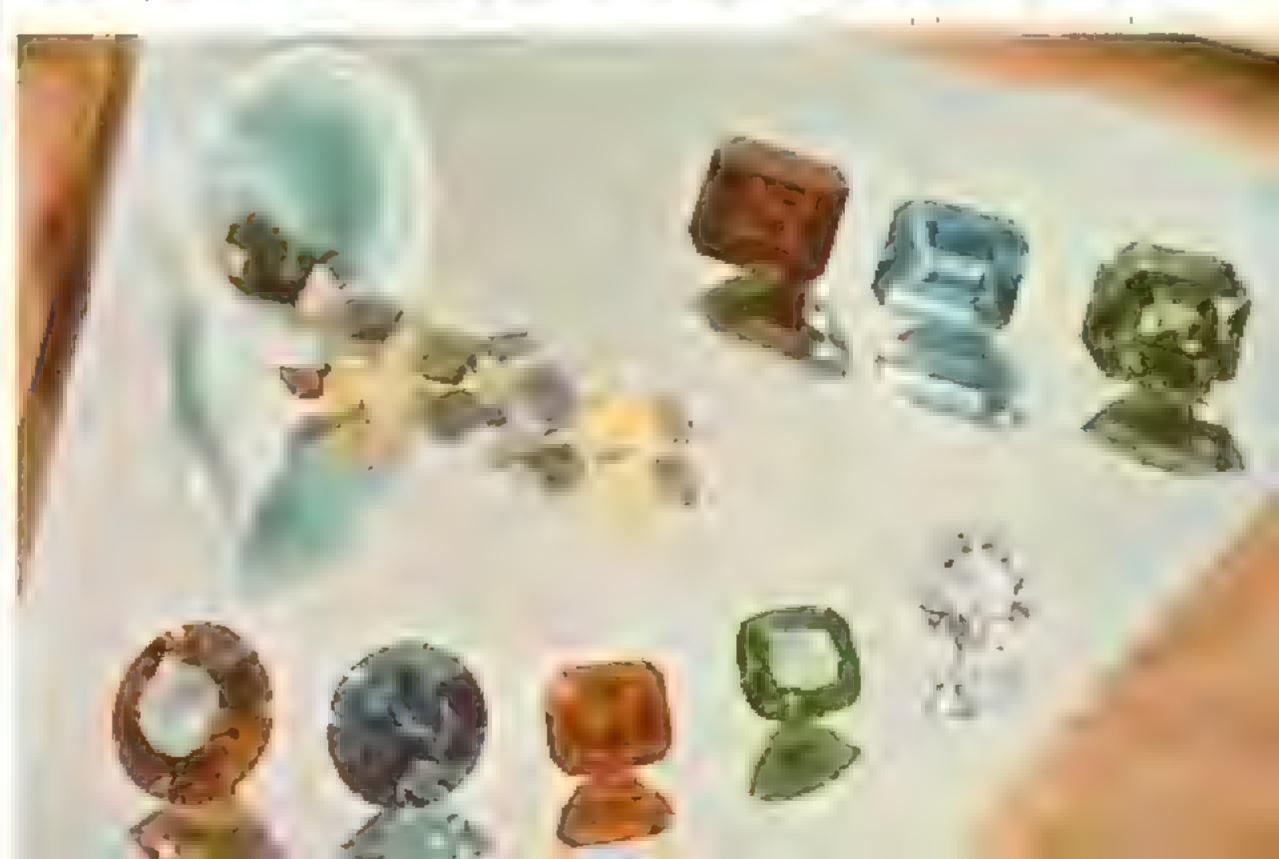
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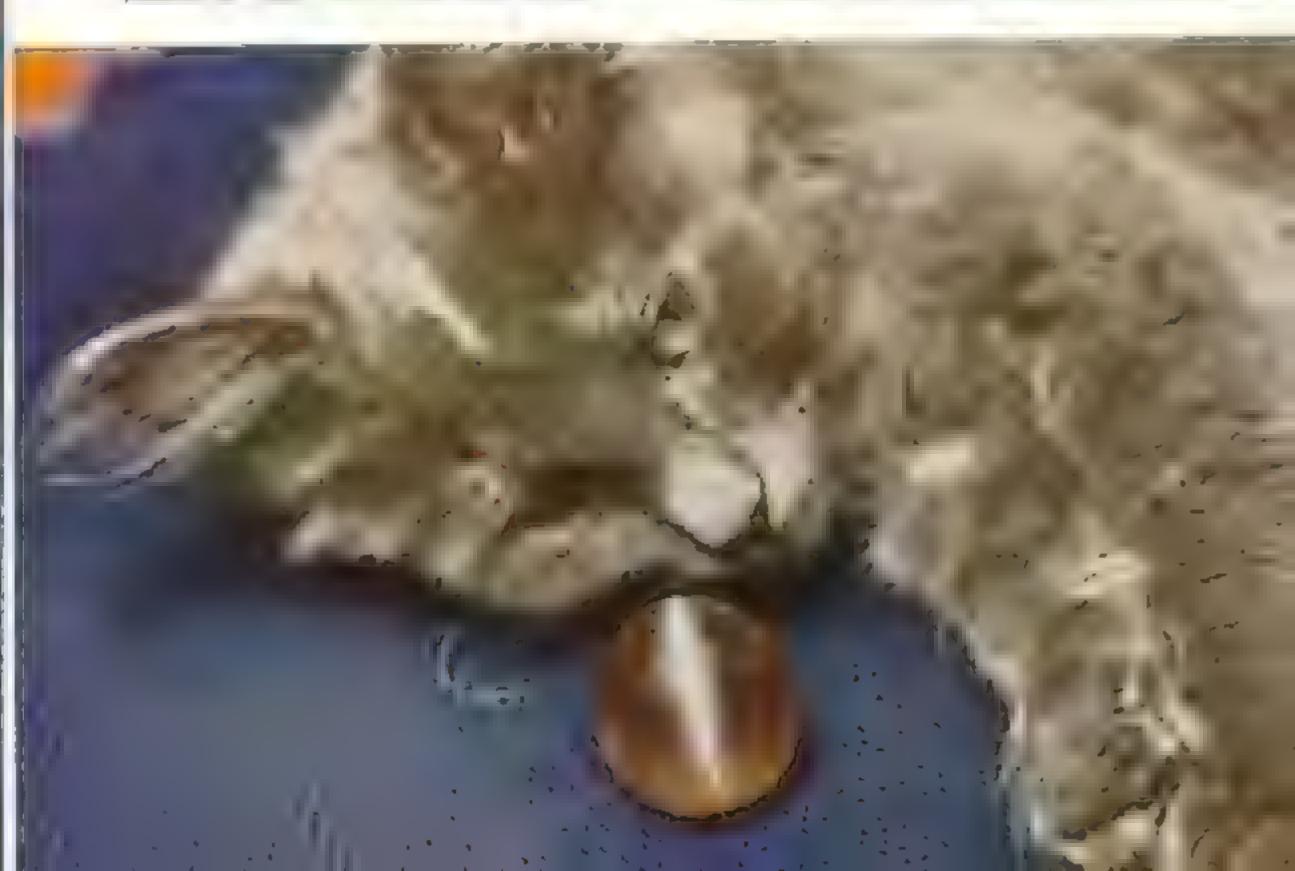


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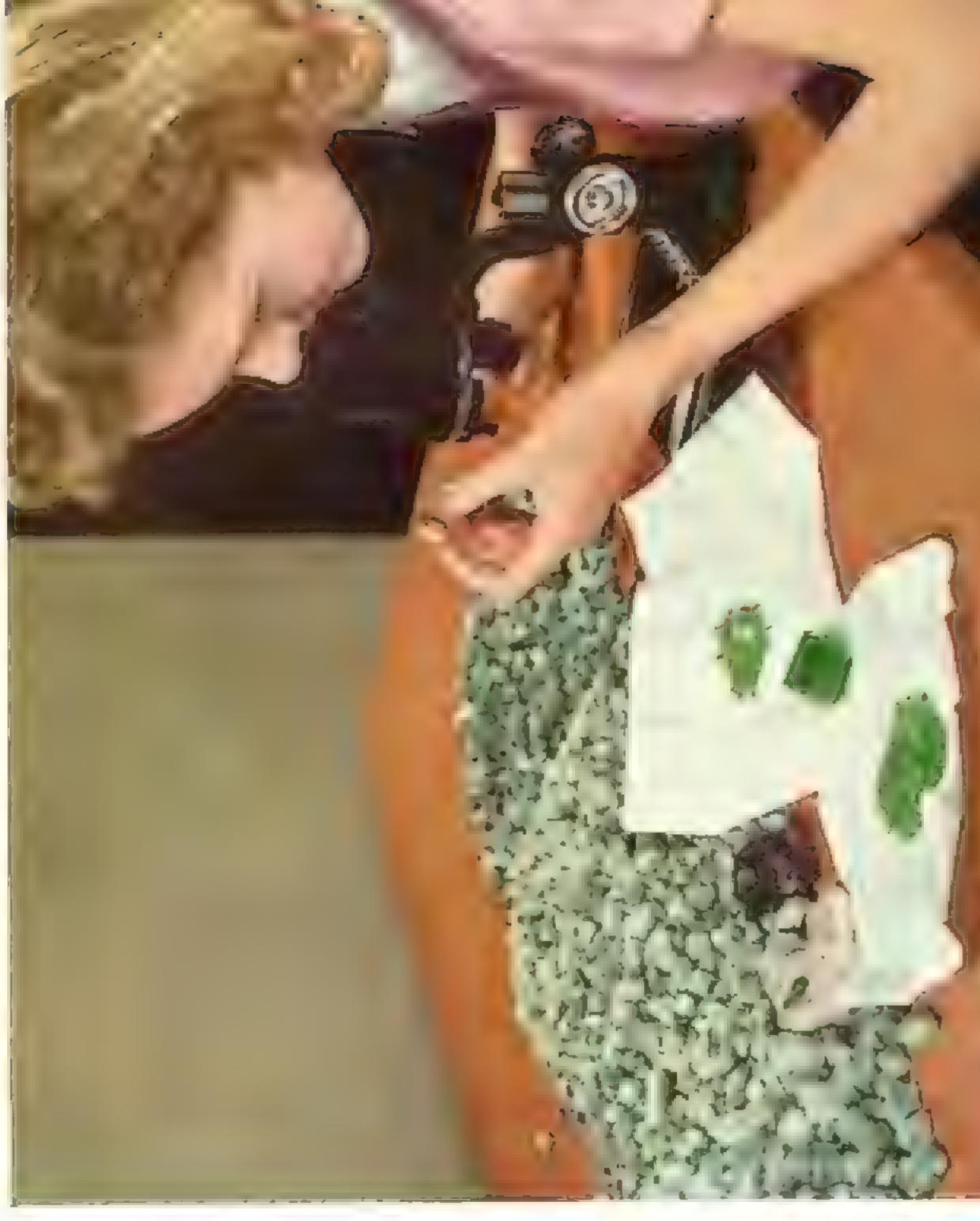


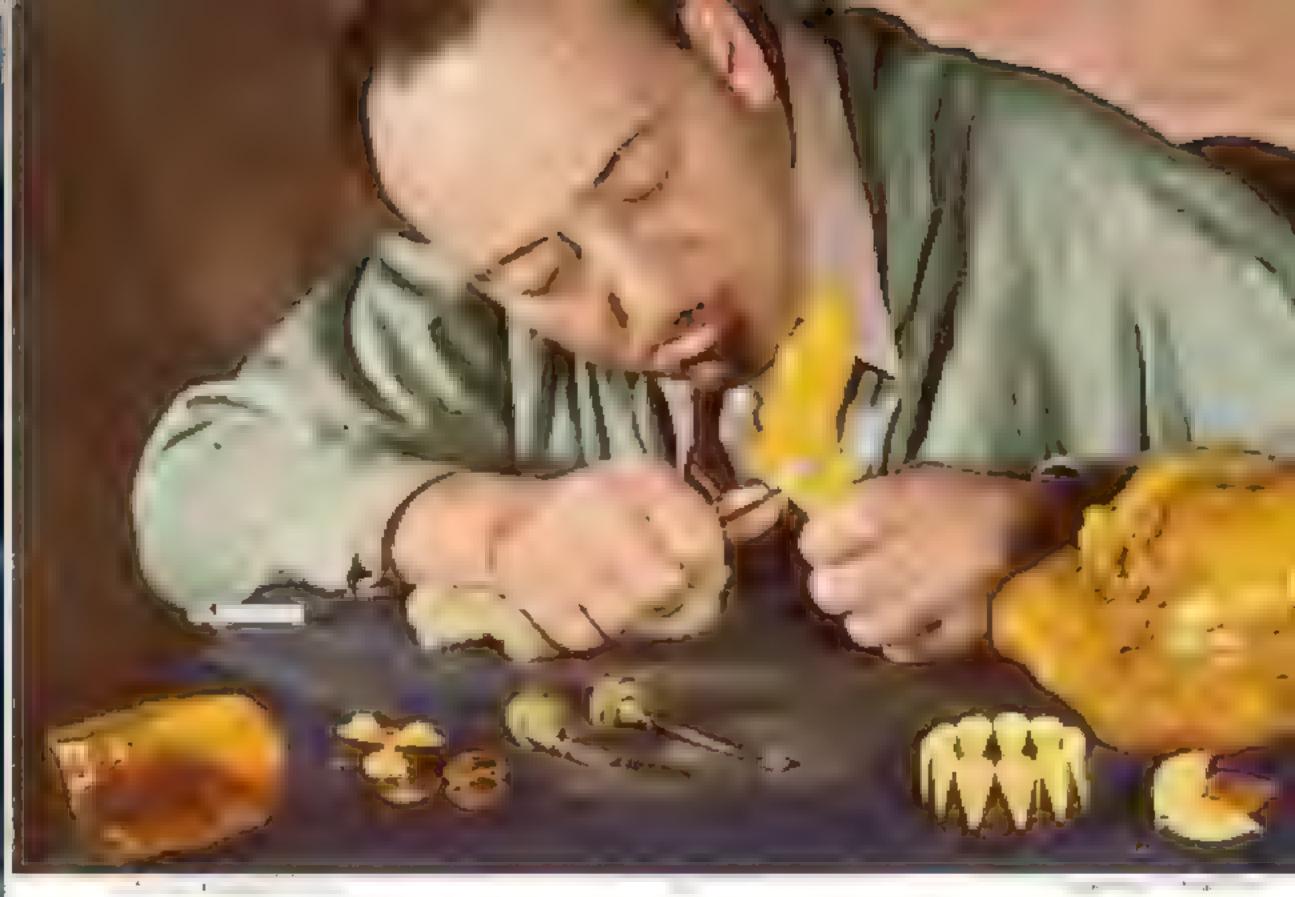
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ealled aquamative. There are also pank or rase and golden-yellow varieties, and a rate form, colored by aganism, is known as belonfor

The earliest source of emeralds was the Geleck Zabara in sea beastern Egypt, near the shores of the Red Sea. The mines appear to have been worked until the loth century, when they were completely lost, to be rediscovered it 1810.

Emeralds for Queen of Spain

When the Spaniards came to the New World, they found the matives in possession of emeralds. Plearny took some from the Incas and sent them to the Queen of Spain. The first indocation of their source came in 1837 when Gonzala Jiménez de Quesada was given nine beautiful green stones presented by the inhabitants of the town of Guacheta, dare invasion and compact of Colombia.

Although the Indians carefully grantler, the location of the mines, "hy sheet luck," states the early chronicles, "they found a youngster, probably of little carming, who told them that the emerald mines were to be found at Somon-too." In 1858 the more famous mines at Mazo, 68 miles from Bog etá, were discovered by the Spanish solther Juna Penazón

Stones to test it on the natives of the xor and trent the mines were shapped to Special of them sold in Paris. The finer stones were kept in Europe, the rest sent to India. Persia, and Turkey. There is hardly an Oriental ruler who does not possess some of these emerands.

even to the present day.

What is undualitedly one of the largest of the Colombian emeral is is the unguest jar made by Pionysio Miseroni, fansots Milanese sem engraver, in the Venna collections (page 794). Carved from a single becauseful rich event crystal, it weighs 2,680 caracts, or nearly

a pound and a half."

A similar large exertal of curious history is the Emperor Jahannar cup, also curved from a single Columbian ervistal. Jahannar, "Conquer cont the World," was adducted to wine. When his favorite wife, Nur Jahan, one day found him seated with his companions, tracking from enormous cups of g bl, she childed him for a sing a cup no better than those of his subjects.

Upon his eath that he would drink from no other. Nur Jahan presented him with the the content the difference in the capacity of the

two vessels.

o cup is now in the Gellutly Collection of the National Museum.

Eract dds and aquamarines, from the same

mineral, differ only in color. The intense green of emerality is due to musite quantities of chromium, which aquamarines lack.

Aquaturatives of a that see blue common labelighest prices, but characterise greens an other shades are equally handsome. The aquamarine, unlike the emerald, must be flawless and lampid. Because of their poler color, large stones are much more effective than small ones; the vogue is for stones of large size, sometimes 100 monts or more.

Fortunately, of a I precious at new the aquamume is found in the fargest flux ess crystals. One weighing 220 pounds was found near the Brazilian value of Maramonia in 1910.

(page 797).

This was unclaubtedly the largest permeter discovered. Its bruter encountered detail y in transporting the buge crystal by cance to the coast, on route to the generating center of blar in Germany. It yielded more than

200,000 carats in superh stones.

The color of this crystal was a green or yellow green, not the most desirable shade. It was discovered, however, that by cautious heatles of the states the color could be changed to a rich seathles of unusual limpidity, thereby greatly increasing the value of the gents derived from it. It is now customary to heat green aquamarines to turn them clear blue.

Aquamarine's mether took is permatite. The deep tropical weathering of the rocks in Brazil releases the crystals from their name resulting them to be easily recovered from the topical stone in which they are embed kid, or exposing them to the rain wash, which carries them down the hill slipes into creek beds.

Madaguscar Is another important source of

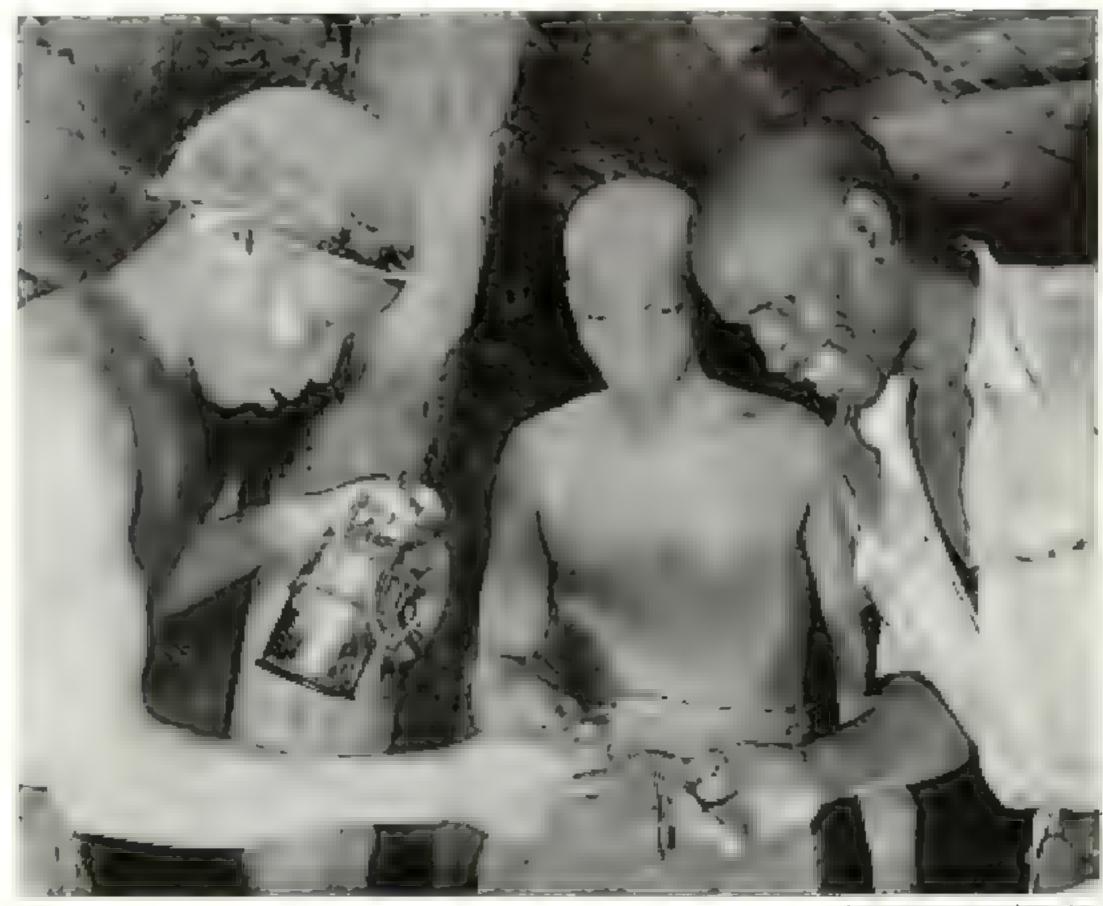
Raret than the aquatatine is the pink bergt, sometimes called morature. This acryl differs from other varieties in that it contains a rare alkali metal, tesium, in its chemical composition. The most desirable color of this stone is seep to se pick.

Pearls Included Among Genu

The pearl, according to the mineralogist's definition, is not a converal, but it has alw a new considered small, the genus (pages 7-1, 784). Fearls are the seater's may be dies produced by multusks as a protection against irritating inclusions or parasites that invade the body of the animal.

Oysters, claims, couch, abaline, and many others produce "pearls." The huge Triducen.

*Sec "The Vienna Treasures and Their Collectors," as John Walker, Narrowak Georgespher Manageri, June, 1950



"I ak, Mare a Diam and?" His Find Mar. Mean Ship, the Maximum Reward

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colors glattering together mixed in an install

Today many lovers of gems, admiring the strikingly beautiful Mexican and Australian opuls, unknown to Hiny still consider this cent the most beautiful of all (page 794).

(apal is one of the few udnerals that have never crystallized. One might call it a rock jelly. In chemical composition it is similar to chartz, the commonest of all solid minerals.

The oldest known opal locality, from which the Romans probably a brained their gemais Czerwenitza, in Hungary (now Cervenica, Czechoslavasia). These mines no longer yield stones. If ngarian epals show a mosaic of test, blue, and green colors of changing bacs in a white base.

Descri regions of Queensland, New South Wales, and South Australia produce fine stones. Gents from Lightning Ridge, New South Wales, have a unique splender: in a body of dark-gray or black stone, myriads of colored Lights dance with each slight movement of the gem. Unfortunately the mines are almost exhausted of rich traterial

Among the corious forms of natural opal from Australia are the petrified forms of extinct life, sand and chan shells, and even the bones of the leng extinct swimming repule, Mosasaurus, changed to colorful genes.

The spain of Mexico are translacent, with imponerable small but buildnot thashes of relor penetrating the body of the stone. In some the base is hopey yellow to prange arown, a rare and unusual color for opal.

The finest, and the rarest, are the 'llowiz nandes' (from the Spanish Reviewer, to drizzle) with colored darts theshing through a pullialid matrix. The effect is similar to the tray reinforces of light observable when the sunshines through showers on the high plateau of Mexico.

Opale from Petrified Forests

One of the most anusual gem deposits in the world is the opalized forests of Virvin Valley, northwestern Nevada. Even evergreen cones, in flashing opal, are found among the petral ed branches of world barried in the ash of an ordent volcano. But the Nevada strates have a fatal weakness; as they dry out, multitudes of small cracks form which eventually weaken the gems and destroy their heauty.

The largest known opal was found in the Hungarian mines in 1770 nnu weight 595 grams, or one pound and five nances. It is in the Imperial Museum at Vienna.

One only slightly smaller, weighing 553 grams, is a magniticent black mass with broad flashes of green, blue, red, and yellow, now in

the National Museum. I is from Voran Valley and represents the outer back section of an opalized tree trunk,

There has been much confusion regarding topax. Presumably the name came from Forares, an island in the Reliber, and the ancient gam was the peridet of modern times. Foday the nameral commonly offered as topax is a much less valuable yellow variety of quartz called citrine.

To the mineralogist, however, topus can mean only one materal, a fluoritrate of aluminum. This is a fairly we despiced mineral, frequently associated with asparancine, which it sometimes closely resembles.

Topaz is often yellow, but enfortess or blue crystals are more abundant (page 740).

The finest yellow stones come from minester Outo Preto, in Minus Geras. Natural case-council stones are more but can be producted by carefully heating the yellow stroks. The heat colored stones are marketed as place to pre-

Infe-blue stones are not uncommon and are sometimes sold as aquamarines. Many fine examples cause from the region about Mat-cinka, in the Ucals, but are new found more anatulantly and in larger size in Brazil. Some buge crystals were recently found in an argual marine mine, from which the National Museum received a perfectly found crystal of 157 pounds.

American sources, while widespread, have to the rong receial in portance. If he blus tystals base been found in San Diego Control California, and a flecture' pieces have a from Colorado, Texas, and Maine Small topaz crystals occur in the steam cavities of a lava hed near Deseret, Utah; though small, they frequently show fine et a r—until exposure to similar to similar the steam of the steam.

According to the purious, popus not only cooled builing water, but anger too; it cored beauty, asthma, and 'i someth; imported strength and good onesting and averted surface death—surely something with own-last

Chrysobers 1 Yields Three Gens

Chrysoberyl is a rare and unusual naneral yielding three distinct types of arm stone. It is a combination of alumina and beryllia. In hardness it approaches the sapplier. Simple abtysoleryl, as found in Brazic and Ceylan, shows a fine lemon-yell by to chartrense-green color, the latter a care and particularly handsome blot.

The cat s-eye is a transaction thrysoberyl of himey to greenish-ye low toles criwded with minute parallel anclusions, so that a store caren color how thege (30) shows a white line of silky shein moving over the surface. Its resemblance to the felting eye gives it its name

The alexamirite, green in daylight and red in artificial light, was first discourted in the court of mine of Takewain in the Utals on the Ly Tear Alexander II arrained his majority.

Only small glerandrites lave term produced in Russia: Ceylon has yielded much larger ones. A very rate stone, much image the effects of both the cut's-eve and the alexandrite, is known as alexandrite cut's-eye.

Mineralogically, the petadot tpage 7501 is the vificate of magnesiam and iron cultural olivine. It is uncombtedly the gern known to the antients as topizon. Officine, communial certain types of five known as basalt, is also found in certain kinds of neteorities.

In spite of percent's attempance, material spital lefter fine gents Is rare. Its only commercial source is small St. John's Island in the Red Sea. Typical crystals from here have free found in excurations in Alexandria, Laypt, proving that these deposits were worked in very early times.

built stones of the color are found in antibuilt in porture a trizona. The stones weather out of an ancient lays, and the bright grains are among the materials brought to the satisfic

حادك زا

The largest known period once adarned the figure of a saint in Austria. It is now in the National Maseum.

Two Varieties of Jude

The term is be (page 156) was derived from the Spanish picolea de epada ("stone of the side") be abuseon to its supposed power to relieve pains in the side, and referred to the green stones brought by the Spanish continerors from Mexico. A stone of similar a spearance and with son lar mystical properties was known as lapis nephriticus ("stone of the kidney")."

These two stories have been so thoroughly confeser, that be the varieties are now much a under the tetra "jude." Mineralogical examination has shown that one, named judeito, is a sheate of socia and alumina, the semanticalled nephrite, is a spicate of line and magnesia. The two minerals can be readily distinguished, for their only common characteristic is toughness and susceptibility to high polish.

Both neg brite and judeste in pure form are white. Nephrite may contain varying amounts of item to yield a pale yellowish-procu to

dark-green stone. Jadeite frequently contains thromato, resulting in a material of fine apple to emerald green. Healters of jackeite that have him buried for centuries in red trapical clays imtone the color to become rath from red. A slight amount of manganese in white jadeite induces a delacate layender tint.

Jade was perhaps the most important stone known to the ancients. Superbly fashiored objects of this material base been found in oth China and Middle America in totals and sindar remains as early as the 16th contury 8. r. The high artistic quality of these objects indicates a long period in the use of jace antedating even this remote period.

Indeaths is have also been recovered from he remains of the carly Swiss lake dweldings

burly Middle Americans Used Jade

The use of jade by the Chinese is well amove, but the fact that the early Middle Americans also used this material, perhaps asealy as the Chinese, is not generally realized fouries of the Ol nec civilization of Mexico and Central America have yielled non errors powered winderfally accurated artistic conception.

The later Maya and Assec cultures also prized jude highly. Two pieces of jude given to Cortes by Montazuma were salued by the Aztecs at two bods of gold. Only the gods and the noldes were permitted to wear this valuable material.

The most color for jade is a rich emerald ereen, the x-called imperial jade. The Chinese bken this color to that of the teathers of the Chinese kingasher and call it for their the Aztras compared it to the planage of the poetal and called it questial chalchelist.

Strings of carefully matched beaus of im-

perul lade have sold for \$100,000.

The earliest Chinese jade was from an unknown source. In the Chou dynasty (about 1127 to 249 & c.) rephrite from Khotan, in Tarkistan, came into wide use. The only renumercial source of justeite at the present is the mines of Upper Burnta, which started production in the 15th century.

The formulae spage 70% is one of the next complex and variate of mineral species. Its complex and variate white, through all shades of red, yellow, green, and bitte to black. It is not to be a property of the complex
V. Comme Stone Tights." September, 13
postulon I nearths borne i Masterpreces of a re, one. "September 1941 herbidey Masterpreces of a re, one." September 1941 herbidey Masterpreces of a rejudge "by S. E. Laster, Jaminey, Last, and "Familiae"
levels of Jace in a Mexicus and the last of Jace in a Mexicus and the S. o. o.

1942, by Masthew W. on I Marin in S. o.



Jade Ornamenta, Relies of a Systone People, Emerge from a Mexican Cala

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Marie Richard History Alexa Pase protection and a public relation

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ite, andradite, and avancente. The usual colors are rea, brawn, and yellow, but whate, green, and black forms are also found.

The common species is almon line, an iron different in selection, which in gene torm includes the certainale. A purplishered form, for adonly in Cowee Valley, North Carolina, is known as thereblate. A magnesian variety frequently seen is pyrope, a smoldering fiery-red stone, whose principal source is lightenia, for which person it is sometimes called ' Hopendan

persartite, a manganese aluminam silicate, yh bla tare golden-brown genna. Gressalarite, the calcium form of garnet, supplies the esom-

ne, or "cimpamon stare" of Ceylon

A variety of undradate, called domainted, has a grass-green to emerald-green color. Its name refers to its high laster, resembling that if the dramond. This rare and beautiful so be is found only in the Unit Monotains.

Garnet is a very common inductal, usually found in regular 12-sided crystals, called dodecanedrous. But crystals sufficiently clear

and flawers for kem use are fare

India produces most abnumine garnet. Line pyrope is mused in Bohemia, and is found in fair quantities in Arizona and New Mexico.

Zirenn, Brilliant and Popular

Zireon (page 703) comes in a variety of colors. Its brillance approaches that of the team and. It is a silicate of zire minor, the cost common of the minerals of this somewhat are element. Natural colors vary from dark charge red, through brown, golden brown, to yellow, Small coloriess stones (ound near Matara (Matara), in Ceylon, are called "Matara diamends."

About 20 vairs ago many heautiful like zirc as been to a quar on the market. Naturally blue arrows of a very pole tint were previously known as a ture color variety of this gent. Con iderable secrecy enshroused this new appearance until it leveloped that the fine color resulted from heating the sircons

found in Annam, Indochina.

The cough pebbies are placed in a crucible and heated over charcoal stoves. In a similar avancer, many of the zircon pebbles can be transformed into colorless gents. Both the blue and the colorless have become popular stores in the gen trade

A rare variety of zarron shows a fine apple-

green color.

The principal source of tem zircin is Annain, where it is mined as rolled cryetals from stream kerls. Many stones are also found in Ceylon. Fine stones are found with apphire at Anakie, Queensland

The very rare spinne (page 700), a sleate of thanium and calcium, is known inther dogically as titable. Its color ranges from a line tunity yellow to green and brown. It is quite soft and therefore little suited to ring stones, but can be used effectively in necklaces and knowness.

It owes its merit to its extreme tailliame, and it shows a fire surpassing that of the dutmond. A properly out sphere shows numerous thates of red and blue light, approaching an

oped in the intensity of its colors.

There is no regular source (or this precious state. Occasionally a cuttable crystal is found in the mineral festires of the Alps. A few good at mes have been found in the old rop muses near Brewster, New York. The few stones that appear apon the market are quickly snapped up by comolsseurs.

A synthetic material, named thania, exceeds even the sphene in brilliance. A large production and market are anticipated for this new member of the fan ily of synthetic gents.

Turquoise is "Turkey stone," the blue gets that reached Europe from the Persian mines through Turkey. It is one of the few important gets in whose formation heat and pressure were not involved, for it is formed by the simple medium of water perculating through moks near the surface of the earth. Chemicalty, it is a phosphate of copper and all manum

Like jade and namber, it had a special interest for early rues. Some of the earliest turquoise mining was on for Sin ii l'etinsula, and it millenniums l'ersia has been an important source of the finest quality material. Turquoise was an active commodity in the markets of early Egypt. The aborigines of America also prized it highly (page 785) An ancient as well as a present source is near Certifle. New Mexico.

Persia furnishes the finest quality, of a subin's-eag blue. Greenish blue stones are inferior. When traversed by delicate veinlets of prown or black, it is called 'spider-web' turquoise. New Mexico, Arizona, and Nevada are the principal sources in the United States.

Rock Crystal in Demond

Quartz is the most common of minerals, Everyone is familiar with it in the form of sand. Chemically it is pure silica. When crystallized it forms six-sided prisms terminated by a three- or six-sided pyramid. When these crystals are clear, they are known as rock crystal.

t lear and flowless rock crystal is in great demand for commercial purposes, for it has a peculiar but very assful characteristic. It is



Amber's Insect Prisoner May Be Millions of Years Old

Affireful rescribilitie and see is actually an expanic material, the fossilized term of an limit term. Sometimes a preserves lenges showers, eathers insects, and parts of an muls. Commany's Balue could make a product the could be work a solver. Stories we do outst deposits ashore (page 881)

picks or many other types of apparatus,

Cut and pole-hed into faceted sams, rock crest d becomes the familiar ramestone. One of a matrix occur a conduct of a system of a specific spheres for crystal gazing, used in divinction (page 792).

The let of dividual equal the Mollie Ages. In the arms populated the arms the Mollie Ages. The engineering of the arms the population of the arms of the letter of the properties against the application of the creatal section and the dividual three persons may proceive visions.

And not the Orientals, rock-crystal spheres were popular as symbols of purity and as a daylling to a north rate of rates?"

The ance to be and that note the study of a construction of the study of the study of the study of and the study of and the study of and the study of and the Greek ways, here to be a first and a form the Greek ways, here to be a first and a form the Greek ways, here to be a first and a form the Greek ways, here to be a first and a first the construction.

A time trapage of the experience of

the confisted page of the page that I have writed to the entire there are the commercial product is obtained by heating amothyst. Smoky-gray or brown took crystals are known as calregorm stone.

Quartz also occurs abtendantly in a messive pure varieties of rich colors are included under the term "jasper." The impuraties, under some training of the colors are included under the term "jasper." The impuraties, under some training to the patterns to the term of the patterns to the time is speckled with small ted and the land of the land.

york they be found in any part of the world. Utal 3 ountains justier was used to tensively in the hard-stone carvings of many of the master artists of a new second

A form of quartz to the character of the last paster and rock crystal is character to it crystalline, with a waxy translatent body and is best known in its bandan lotte, again to its

The histown form destroy of a remark an engrant with variety will to see, and to bunded envey form, sardony with a not love apple green by nuckel, it is



Out of a 4000 V. I a mace Comes a Synthetic Supplies Rivaling Nature's

The second of the second of the second of the second of the control of the contro The second of th 14. a 11. b

 I vaccuse. Codectary with masslike ingraphy and the contract of the will be the ras more neclar sages for league as sta Henry Parts.

truz as a most important resoluter of or the for the tremendous furerase in the course of an amoteur hobor, the politic aper ricialcolony is now the most mps 2 as a per laction in the United 4 1. G .

Arber Nor a Tree Misera.

Amber is, strictly speaking, not a mineral, Prince and contract of the little of the rees, which, through pullens of years of our like taken out in north become as

orien. According to their Service, the stateof the young prince Plant can favor declarate f the sunger littles who but by things, with appearing and were tarrier or principle in a which are trained tears shed drops of amber-" et l. n was buried on the shore, and an impartient source of amber has been the masses washed up by the waves of the Balt's Sea.

The modern search for and or stimulated expluration, calling for new made and trade toutes across the then known world to the distant to a record to the enician amber men han's approached it by sea. Later the Romans transported it overland to Veluce of Marsei le.

Frequently amber contains plant and anirous end of the second citrine, as well as much remain to see and flowers, and it so is That have been a second to be a second mose i from the free sand in a second Flye and Aut being ter ter, dissipable solostances, falling into ambor, are therein baryed Ending therein and the transcript preserving then to the fourth or than a series Royall Monument are pelicinal larger his History . L. and Hall.

Aprile of a fire a superfect that the beetles, grickets, spiciers, scorrious, worms, tentary in the constitution 11 1. 1 1 1 1 1 1 1 1

Arrest it is direct in Barma and is much need in China, but the principal source is still I Burke const for many least the land quantities, particularly after worms and the masses of snakeed from the all was carrying amber with it is a da.

Since the amber was originally to a recomthe underlying make, formal add to with a -cavaling burchinery and a sound plant bas विद्युष्टकः (स्पेराधने प्रदेश

Large-scale Western Europe Map First in New National Geographic Series

TO ENEMY is likely to overcome us tale + de fres processos Marie el 1 inpe, which is still the strategic pivot of the world,"

When General of the Army Omer N. Bradlev wrote these words a few weeks ago, National Geographic Society map makers were just completing three mouths' work on master drawings for a new large-scale map of Western Europe.

Huve lith graphic presses now have mened out 1,930,000 copies of this large tensories scal map for distribution to members of The Society throughout the world as a supplement to this December member of their National. O CHRAPHETO MAGAZENE.

"Today our frontiers lie in common with Europeans' in the beart of Europe," said Gittetal Bradley, Chairman of the United States Joint Chiefs of Stuff, in the same historic rlet languion.

"Our foreign policy and rur military policy in 1950," he stated further, "call for the defense of Western Europe from the start, not for a liberation of our friends after they have leren overrun . . .

Uram ancient towns to modern sirports an I occupation zones, the Western Europe map shows our kinship in history and culture with this old and populous part of the world, and its strategic importance in the age of a r planes and radio.

Three-map Series to Cover All Europe

The new map is the first of three presenting ill Europe on a scale that permits showing even the smaller towns. Planned for later issuch are a new map of Eastern Europe which will cover the Balkan countries, and Northern Europe which will map Scandinavia and the pullons of the Pullic.

hach of the future Furape sheets will extend well into Russia, mapping the horder area between the Soviet Union and its satellites.

For quick location of the thousands of place. names. The Swiete will issue in index to each map. The index to the 8.683 names on the new map of Western Europe will soon be availt libra

All three maps are being drawn in the same projection are scale, so that the shreek may be fitted together to make a large, detailed map of Europe about four and a half feet wide and more than hive feet high. With at least 20:000 place names, it will give the trust detailed coverage of Europe ever previded by the National Geographic Societ.

The scale of 1:2,500,000, or 39,46 miles to the luch, was the sen for these sectional maps because it is small enough to permit showing an extensive area on each sheet and yet his, enough to include most important places

hven in high-speed modern airplanes, travelers can scan their map and recognize many features below them before the plane flies of t and out caneth r sheet. The Western Farope map covers at area about 1,100 by 1,400 in les in extent.

In well-populated areas, the new map of Western Europe averages from four to six names to the jach. In an hour's automobile drive of about forty rades, the user will find that along his route an average of four to half a dozen of more places are located and named.

Ideal Guide for Pilgrims to Europe

Up-to-date compilation of railway of ... airports, and waterways makes this war on h for the handreds of thousands of travelers why now wait Western Europe cach year. In 1949 these pilgrims from the United States alone numbered 203,429, compared to \$15,485 in a typical prewar year, 1937. For 1950 the algures are running higher still.

Dollar say countries are glad of the'r guests. In England the income from visitors is greater than that from the hage test le industry. In Frame during the tourist season this in a m amounts to half a million dollars a day.

Except for Scandinavia, Italy, Greece, and Turkey—to be included in later maps—the grea shown includes most of Farope where travelers from the West gre welcome, and barred as by Communist regimes.

Besides France and Great Britain porth to Glasgow and Edinburgh, the 29-by-3714-inch sheet in ludes all of Ireland, Portugal, Spain, Switzerland, and the "Benelux Countries"— Relgium, the Netherlands, and Laxembourg Lastward it extends to uneast, divided Berlin. and it as-curinii ed Czechosboyako, Denmark south of Cepethingen, and Italy west of Bologna are included.

The jutting profusula mapped as Western Europe, together with the British Isles, measare-only about 747,000 square miles; yet this "strategic pivot of the world" is the lume of

 Members may obtain additional copies of the new map of Western Europe (and of all standard mappublished by The Scooly) by writing to the National ta omaphic Society Washington 5, D. C. Prass. In I inted States and Possessi his We each on paper, \$1 iii n., Index 25c. Outside [Inited] States per l Posresponse, 750 on pupile, \$1.35 on linear, lanks, 50c. All renatts tree pays the lite V. S. 1823 by Produge proposel.

225,000,000 people many of whom have relatives scattered from Canada to Fut gonia from Bermula to Australia and New Zealand. Though only about three times the size of Texas, Western Europe contains some 31 times as many lighabitants.

from this comparatively small area came many of the explorers, peoples, institutions, ideas, and skills that built up in Europe and the Americas what we know as Western Civi-

lizativon

In the heart of Europe lies pivotal Gertal, what two in the project catedy are suddenly attacked its neighbors and twice has not owercome in totastrophic world wars. In map shows it broken into zones of occupation. Western zones are marked by the Stary and Stripes, Union Jack, and Tricolor; the eastern zone by Soviet Russia's and dag

As the split between East and West has wriened, a cozen nations—Belgi an, Canada. Denmark, Traore, iceland, Italy Lawrenbourg, the Netherlands Norway, Fortagal, the United Kingdom, and the United States—base committed themse was to resist any new ag-

1 -- 6

der the North Atlant's Treaty signed in Washington on Apr.14, 1939, these 12 rections that they are "determined to safeguard the freedom, common beritage and civilization of their peoples, founded on the principles of demartacy, individual liberty and the rule of low." They declare that an attack on any one of them, or their possessions, in Europe or North America, w.l. be considered in artack upon all and will be resisted jointly.

Travelers See Results of ECA Billions

Meanwhile, was shattered Western Europe in fighting its way a st of the frigatial wreckage of World War II with the aid of the United States under the Econ ank Cooperation Act of 1948, better known as the Marshall than

At the halfway point in the Marshall Plan, on April 3, 1950, Gen. George C. Marshall, author of the Lam, said "a near miracle" has been accomplished. But, he added, "We must work for, and expect, another miracle."

Traveling alook at anywhere within the limits of this map, except in Spain which is not a member of the Organization for Far spean Economic Cooperation, the American visitor sees the evidences of ECA assistance. Productive forms and healthy Prestock bespeak fertificers, seeds, animal feed, and technical physics from the United States. Some cool, 200 tractors, three times the 1938 number, till Western Europe's soil.

In the area of the map lie some fifty major industrial projects assisted by ECA. These are chiefly devoted to the production of basic materials such as steel and other mineral products, cheer cal energy, and out remery equipment, but they cover a wafe range of other and istress

Two plants to produce streptomyon are being built in France. Portugal is gettler assistance on a large pulp and paper mill. In the Netherlands, ECA is assisting in the Usel Meer (Zuhler Zee) reclamation project, which is planned to recover \$50,000 acres from the sea (page 749). France and Italy are getting new air laters. ECA dollars are going 1000 steel plants such as these at Hayange and Ebange, in Lorraine, and near Port Taloot in Wales.

The Morshall Plan means for haropeans midums of jobs pay envelopes, and the feeling of confidence and security that goes with them

Western European nations themselves are uniting for the common good. Examples of all of the tope, with a consultative assembly needing at Strashough that the Rhine, and those recently the French Schuman Flan for packing coal and steel with German.

Sant New in Union with France

The map shows the new prosist out State of the Sear. In 1947 that potent coal-mining and industrial district voted overwhelmingly to separate itself from Germany and to join in economic union with France. The Saar State is independent in internal a facts but depends up at a rance for protection and hand ing of foreign relations.

The Sant's new status and a few slight changes in Germany's western bottlers are subject to confirmation by a prace freaty with Germany, still unwritten more than five years

geften fine war.

bound, ry changes so small they are hardly respectible are redected in the new border atween Germany and the Netherlands There are 10 of these minor corrections, totaling about 25% separe miles with a population of 9,200. The changes straighten out certain border anomalies which have plagated transportation lines, water central, and customs enforcement. Other minor changes in the borders of France, Belgium, and Luxen 101.19 with Germany are incorporated in the new Western Europe map.

In the words of the English post Wildam Cowjer, who died a century and a had ago

What is the bat a purpoof but. Its the tantions, and its visit concerns:

J. II. Westcott, Postman for the Great Lakes

By Cy LA Tota

With Ittustrations from Photographs by the Anthor

TY THE black of night, the little cruiser L the Detroit R ver. Her big Dieser engages droped at full through to make be dway through a heavy chap and gale. A 33-midean-hour wind had whipped the usually calm river into a victure inland sea.

The small host plowed ahead, burying her nose late hig waves that sent the murky water spilling over the bow and windshield. She was on her way to "rendezvous" with a Great Lakes freighter. Her mission; to deliver the

1[5,[1]

Standing Leside Tont May, a veteran riverman, at the wheel of the stordy mail boat, I suddenly picked up the long, dark lines of a ship. The froming freighter slid through the water, a white wave our ing back along her <u> Դես և ԽմՈւ</u>

High above the water, the ship's lights blinked through the darkness as we ruthed against her side. We pushed with all our Drewl might to keep pare with the big vessel.

which held fast to its regular speed.

Forty feet above us stood a crewnan silhometted against the faint fight. He lowered a mull bucket, which skittered down over the side of the fasighter and awang into the cabin of the mail beat. In a matter of seconds he bratted it up again. The freighter planger, ahead as the Wester/# turned to set its coarse for shore.

The contact we made with the "laker" was strictly routine and is repeated many times through every 24 hours of every day from

mid-April to mid-1 weember.

F 4 4

"Out of the World" for Weeks at a Time

Crewmen who ply the Great Lakes often have no contact with the outside wirld for several weeks at a time. To these thousands of men and their hanside fam Les, the 40-foot power craiser, on whose white cabin roof appear the words, "U. S. Mad," means a Let. To them their "floating post office" is perhaps the most important boat anywhere in the world!

It is more vitally important to shipowners and ship captains. For them the Westcott relays corfi lential information and orders v.a. telegraph and mad. Cargoes and destina is as for the Great Lakes fleet are frequently top-

When such is the case, an owner wires instrictions to one of his ships through the

privately owned J. W. Wester It Company, a marine reporting agency, on Detroit's Lotst Street. Such messages are scaled in envelopes. and delivered with the next mail. Without this service, Great Lukes ship has would be

seriously bandicapped.

Written orders have preference over ships to-shore telephone, which can cause much misunderstanding and delay when reception is had. Then, too, there is always the posbility of a competitive freighter picking or o telephone call and racing to get to post first. So Great Lakes ship operators have come to depend largely on the tiny liferecost for safe and sure delivery of their orders.

5 metimes it is virtually impossible for the mail but to contact all ships passing through the Detroit River from ei her Lake Huren or Lake Erie When think fog settles over the area, many ships are forced to drop anchor. and wait for it to Lit before contacting in their

1 1911 425.

When this happens, a Lackleg of as many as 16 freighters will sail tagough the river The Westcett reaches as many as a con-

Time a Vital Factor

With a compensatively short operations season time is the vital factor in the highly competitive Great Lakes shipping industry If a freighter laden with valuable cargo to be relivered on stated schedule were to stop of even slacken its speed to wait for mail derivery, thousands of dollars might be lost.

Statistics give an inklug of the great importance of this industry to our Nation's econonly. In 1949, some 157 million tons of iture ore, grain, coal, and ilmestone and more than 93 million barrels of oil were transported in ships of American registry alone. Actually, more t impage is handled by these carriers than the combined total tonnace that pusses through the Panama and Suez Canals.

During the eight-mouth period when the Detroit River is ice-free and open to ships, the Weste of thems, is some 22,000 mail reliveries.

 In 1949, it handled 914,195 pieces of mail. n it only letters but partel post packages as world. Detroit portal zone 22 is exclusively i r such mariae ma l

Detailt give men like to reminisce about the way this unique mail service was been. Capt Jahn Ward Westrott, for whom the present land is named, was the youngest capta n on the lakes when he retired 70 years ago. He wanted to work out an i lea to save time in Great Lakes sulpping and make himself

some poury.

He hought a rowboat and would row out to meet cargo barges as they were towed part the city by tugs. He delivered mail to crew-men for 25 cents per letter. Then he started taking orders for small stores and fresh food He worked the clock around, grabbing sleep etween "tows". Gradually Westcott built up his own marine reporting agency.

Larly in this century, low barges pave way to Etennopropelled vessels. From then on, various small power coaft cruised the Detron

River multi-rati

Two years ago high operating costs but to a Government attempt to a mandom the mail run. But shippers protested so vigorously to Washington that private companies were invited to bid for the contract. The job went to the firm Captant Westcott founded many years ago.

Mail Is Just a Side Line

For several years the Westerd Addn't handle mail. Other power consers did the job as our tract for the Generalment. At that time the Post Office Department had a culting that have carrying U.S. man could transport a whing else. And the Westerst Company has always performed a multitude of choose for the lakers.

When this to ling was related, the Westernain started delivering mail. 'Mail is not tually a side line with its." says J. W. Western tt, present head of the firm and oldest son

of 1's founder.

One of the Westert's most important other or view is coffee supply. In the or view office is a large blackboard chart which lists the kind of coffee used on each suip that passes through the Permit Rivet. In addition to the brand name, the board also lists the type of grind, whether drip or percolator. The order coffee, and the bitle Brestout makes the delivery

Another service the company offers is laundry and dry cleaning pickup and return. "They put it off dirty; we have it do to up and get it back," says Westcott. The boar also makes regular deliverles for a local muring supply store and serves as paper boy by notting Detroit and other newspapers to ship regular every day. Machinery parts and subors haggage are two other items the Hestcott

handles

The cruiser even embarks or debarks an occasional passenger. Even this is done without a freighter cutting down its specifically as the mail is put about the Westerst brushes alongside a passing ship and keeps pace with

it. Then a grew member on the larget sloplowers a ladder, the passenger grabs it and hoists humself about has the made hoat turns around and heads to shore. A few thors the Westert has had to lish a passenger who "missed the boat" out of the water.

These days crew members often get notice to report for Army physical examinations. The Westcott not only nelivers the summanions from the draft board, via total, but also gets

the prospective draftee to she re-

When a crewment gets word that he is to report for an examination, he notifies the draft board in his home town to send his papers to betreit. When this is done, the crewman lowers himself to the deck of the Westerst the next time his ship passes through the river. He goes ashow, then rejoins his treighter or tanker the next time it reaches Date it.

The Westert Company maintains the branch offices—our at Port Huran, north of Detroit, and mostler at the lower and of the river. When a breighter passes one of these, a crew member often shouts an order for coffee or supplies ashore. The branch office telephones the order to the main office in Detroit, and the go ds are delivered when the supplies esty the city.

portant message to a susp from its owner, the main office phones one of the branch office, both of which operate their near notes and can

make special deliveries

The Westport establishment works 24 hours a day. Three crews of two men each put in eight hour shifts on the Washout. The office is suffed by three persons ruring the day and one at might. The P at Higher station has three men who work in the office and triver on local day. The hower triver branch, which operates in Canadian waters, employs three Canadians.

After making another ran, we put in at the pier just outside the Dooreit River lost Office, where the Hesteatt was bouded with more bags and hun hes of mad. Hown was coming up. The wind had thed down and the river was called upon again after thurning all night long.

There have been times when the weather wasso rough the Westeett couldn't battle through to passing freighters. But the little boat

usually makes it.

I recalled the instription from Heridotus I had seen on the New York Post Office Building; "Neither sun nor rain nor beat nor gloda of night stays these couriers from the swift completion of their a pointed rounds."

I horked over the Westerst and throught this matte could well be paragorased to include for, gales, high seas, and freezing spray'!



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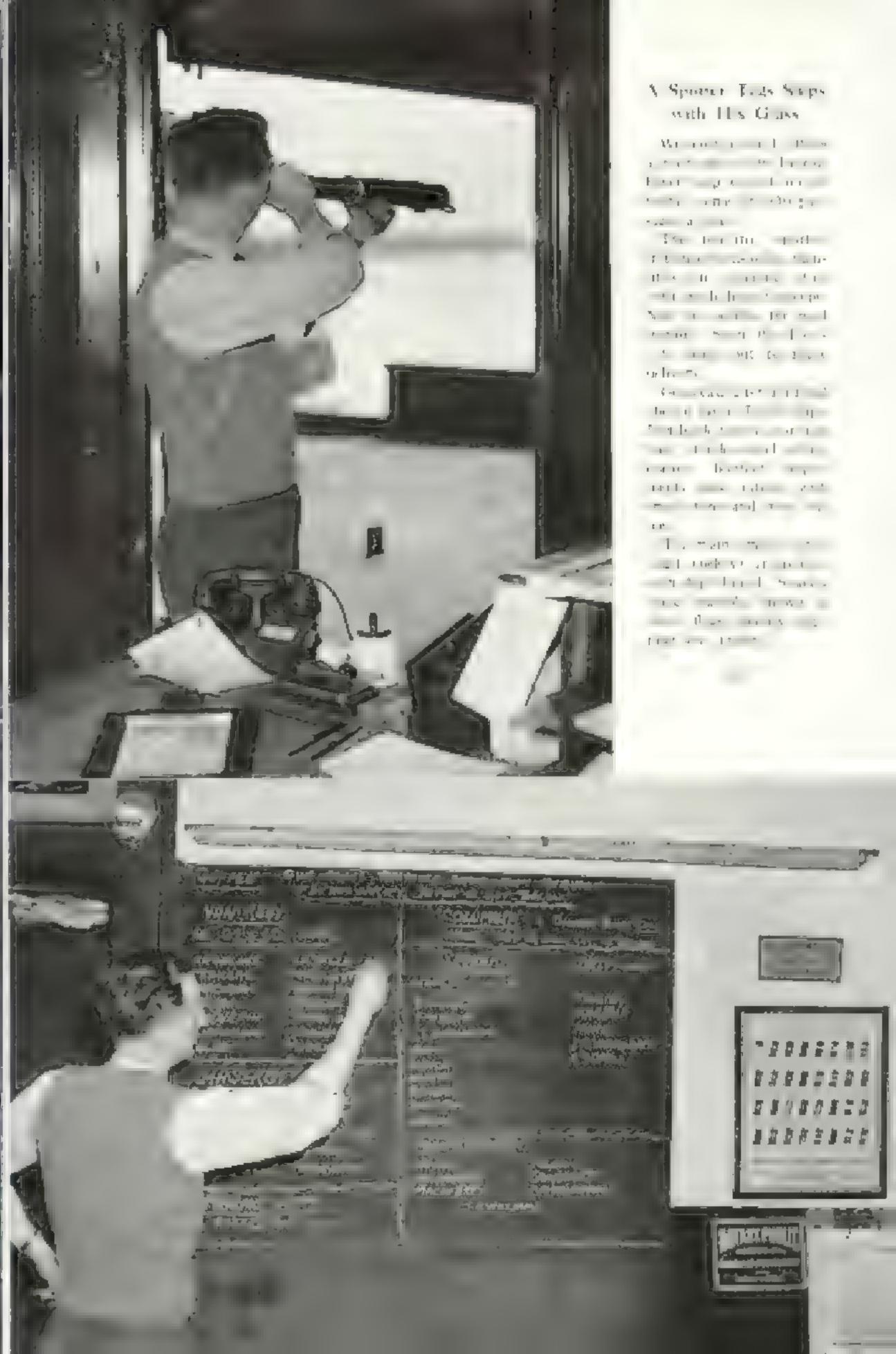

"Hand Away!" A Package from Home Gaes Up the Riveted Hull

s. () Wester it have been upplied Great Lakes second with Laundry, tobaccer, cand a second of the control of t



De weer One Carrier a mel Northborood River Frank of the Sarage of tree their Mile to Samerager







* J. H. Brancatt Takes On Cargo at Her. Waterd on States

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* The Crew's Thoughts Drift Miles Away

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Darius Carved History on Ageless Rock

By Grorest G. Cameron

Chamman, Department of Near Eastern Studies, University of Multipan

With Illustrations from Photographs by the Author

The IMPERISHABLE store of a coordinate for the Creat curved his vainelocious autobiography almost 2,500 years ago. The achievements of this king of ancient Presiation from Iran) they extolled in three different languages of his realm.

This girantic cliffside boast Lecame, like Egypt's famed Rosetta Store, a major key to an understanding of long forgotten languages and the cuntiform, or wedge-shaped, scripts in

which they were written.

Nevertheless, despite manerous attempts to sauce a perfect copy of this input and discument, there remained to our day trementions gaps in our knowledge of its wording are, thus

a falkire to appreciate its magnitude.

By use of 20th-restury tools to gain access to the numbers, and modern techniques of field archeology to obtain a more accurateemd, I was able to achieve what men had long desired: a better, fuller copy, and hence a greater understanding of the Persian's noble

Claff Overlooks Caravan Rondezvous

Darius could have found no better or more corspicuous place for his project than the last peak of a long, narrow range which sacre the plant of modern Kermans s.h. At the foot of the mountain spaces bubble up into a pool of crystal-clear water and supply a small stream, which thems past the value of Risdan and away into the plant (map, page 853).

From time i amountail caravans have watered their beasts at these springs. Here every army which has murched from Iran into Iraq has camped, for the most tair and its springs be on the age old caravan trail between Erba tant (modern Hamadan), once a center of the Medes and Persians, and falded Babylon.

To the ancients themselves the spot was hilly; 500 years before the Christian Era they called it the "Place of God," Baga-stana, which has descended to our day as Behistian

or Bisitum (pages \$26-\$27).

The monument was not the arrived, for Datiles became king in 522 B. C. only after a series of bloody pitched battles with pine other contenders to the throne. It was carved so the whole works might be informed of his prowess and of his debt to his god, the 'Wise Lord' Mastan azeta.

A part of the story is told by a massive relief cut into the limestone in austain 340 feet shave the springs uni 100 feet above the highest part of the mountain to which man can cloub spage 8391.

There today stands Darins, with high brownid straight trees. On his head rests the Persian war crown, carved with exquisite care to resemble the gold band studged with real powers and resettes worn by the Great King

himself (page 836).

Behind him appear two of his officers, the searers of his how and hime. Before him floats the winged figure of the god thurn-madda, who taught Darius to speak the truth and whose left hand grasps the ring which bestows sowereignty on monarchs (page \$29)

Beneath the god stand eight rival contenders, their nocks topent together, their hands tied behind their backs; a north, the archenemy, hes prostrate under the kains sleft foothis own knees and hands lifted in agony. A tenth and subsequent for was pictured a few

years later (page 840).

The rokel above was inadequate for Darius He also communded that the striy be carved in three languages of the empire: Old Persian, the languages of the king and court, in scribed beneath the relief in four and a built columns of closely written texts: in Rate lunian, inscribed on two faces of a nock justing out from the mountainside to the left of the telief; and, to the right of the sculptured panel, in blanute, the language than spaken at Shush, or Susa ("the prince" of the Bablital book of his bar). Somewhat later, the blanute a scription was recopsed to the left of the gold?

Story of Explain Forgoner,

So inaccessible was the Great King's handiwork that even the citizens of has enqure soon forgot the story that was told. Worse still, as hundreds of years tollen by and the languages spoken in his day were succeeded by there men even lost the ability to understand these tongues or to read the canciform scripts on which they were written. But within the last century Paritie's fordly monument itself provided the key by whath the riddle of these tanguages and their scripts was solved.

The story of decipherment began when travelers compared the curious wedge-shaped signs



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Discuss Chase This Diministre Limestonic Uniterard to Advise the World of His Provides say "Single" by Later Later of the first Later the first beautiful to the later of the World of His Provides because the contract of the first later of the later of



Souffold's Cables Streph 200 Feet

The reservoir of the park, can be embed led steel of a tipe of the park of the park of the first
nt Bishtm with those a spearing on other, more accessed in monumer to in old Ter-key and Persia. Sometimes they brought back copies or even samples of these "writings" to Furope, but no man these could read them.

By inference, one of the Larguage with its system of writing was thought to be of Person origin, for it was very common within Persia perfectled as I may a common within Persia perfectled.

Another was assumed to be Babylanian, for its script closely resembled the writing on monuments found in what is now the country of Iraq, in the forden of Filer'—the Land of the live Rivers, Tigris and Euphrat

The third was totally unknown,

The initial step in deal-pherment was made by a Cierman, Georg Friedrich to and, who those two short but supported them, wigh by the last operated them, sign by in 1815, he published his results, it was all but obvious that he had succeeded in finding the key to the understanding of these particular insert plans.

flut the material at band for full declapherment was whelly inadequate. No long text was available to check his disorderies. Also, he had investigated only one of the three Linguages. Since all other inserptions copied up to that time were too short and I miter, it proved impossible to use his probable decipherment of the one language as a key to the understanding of the other two.

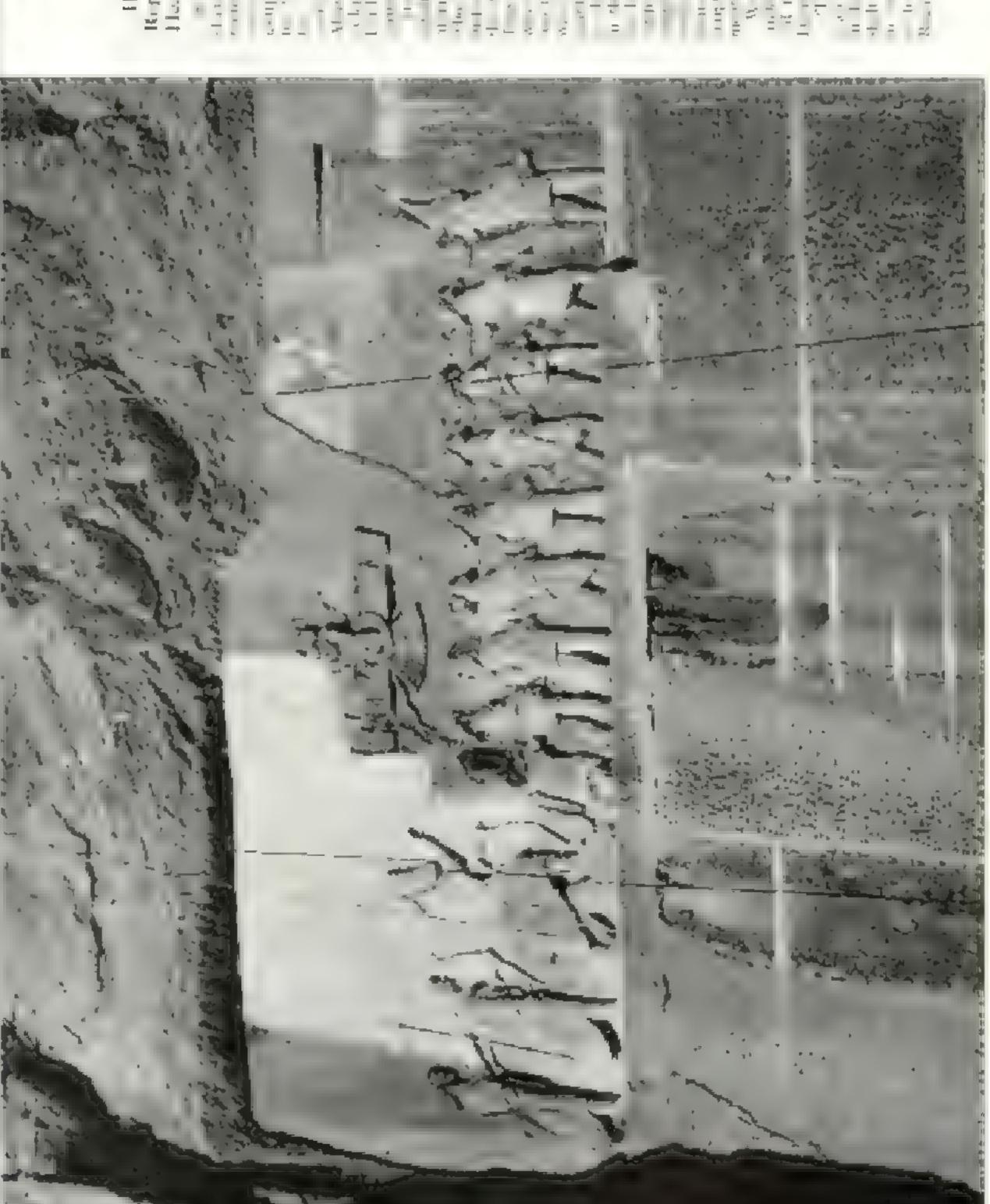
The inscription on Mount Bistungave greatest promise. Here, as we now now, are 515 lines of texts in Old Person, 144 long lines in Babylonian, and 10 lines in Flamite. Its itum, therefore, represented a challange which train must meet and overcome of he would see it in hidden meanings of considering writings.

The first attempt to apply by the story was made a little more than a rentary ago when two Frenchmen sades. Irom Toulon at the beliest of their government and with the support of the two most formors from had wonderful experiences; they scrambled with bleed ng hands and feet up the most of the little and had and feet up the most of the little and had and feet up the most of the little and had a
har on see part was a reason to so forwarder. In the end, they failed in



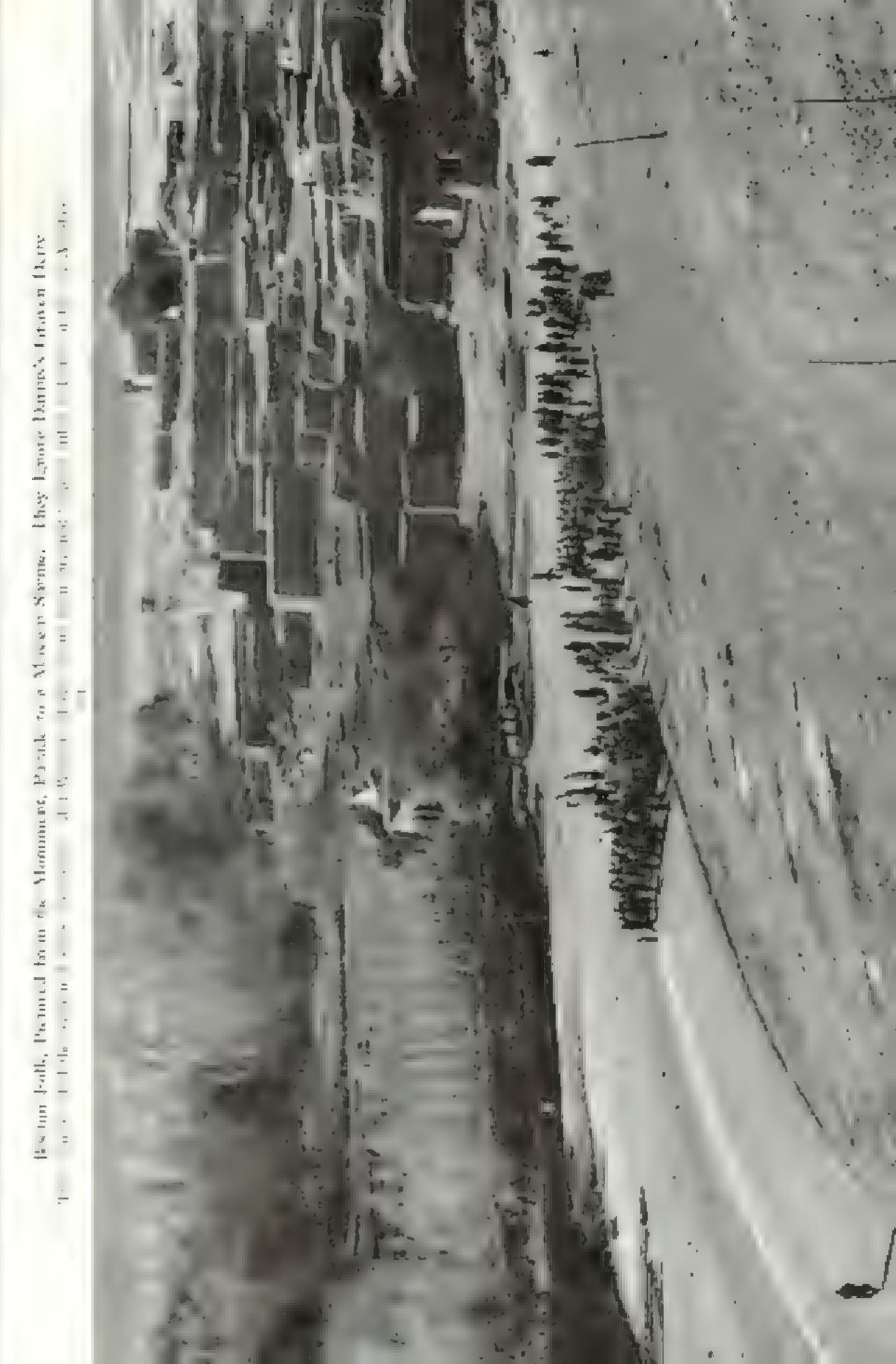
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Randonson's Pronect Achieve nents

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Free the stands have expect to be according to the second and the second are the second and the second are the second as a first property of the second are
Further, despite his moremental achievement, Rawlinson was engaged in making the
nest copy, and in the
earlest stages of decipherment, when often
he bat, no way of knowing what to back for.
His copy, buttrally,
was defective.

More than that: although he copied nine and a half columns of texts, four additional columns containing 323 lines defied him, for underseath these four columns there is no ledge on which a two tan stand

In an effort to clarify some of the more dubious or difficult readings of the Old Fersian text, an eminent American professer at Cohumbia Uniare to A V. Williams . -n. climbed the Rock in 1903. checked he collated many passages and secure I photographs of the insemptions for the first time. But the ful-- 1 - 2 [4 [4] I not yet been told.

So agem, in 1904, an expedition sponsored by the British Museum set out for Baston. Since Lamard William Kerrard Reginald respectively.

who labored for the Museum, could prout from more than a generation of good scholarship in the last to test and understand ancient writings, it was only to be expected that they should improve enormously on Rawlinson's readings.

Also, by a fortunate discovery, they were enabled to use a rock shelf high up the mountainside, thus coming closer to the institutions they shight to recopy. Where Rawlins a leaf been forced to stand upon a tray ledge immediately beneath the texts, they dropped a tope from the shelf above and, satring in a kind of boatswain's chair, swang back and forth across the face of the vertical Rock.



Throng of Harry & Distribut Vision a Edite

Durous's Persia Is Modern Iran, Oil Prize of Power Politics

Aryan, Littele. Arab, Marzell as buildred actives have than tell active this agree of and to years ago are ropels spect American war and to Ru 1 ; towar Irah bars Kire. The third site tire. I who is a constitution of the the same of Europe left a neighbor as none of the tan. The author, copying its indegral text, preserved as immerial document (page 82.

Carefully they reworked the nine and a balt copied.

1. -- is insulted by the fact that not a copied added publication. The last secrets of Reitan, it woar, seem, but been soused.

Yet they, too made mistakes. They were mable to read the signs in innumerable passages, and they made a minure of surely est messas or impossible test stations. The fault was by no means wholly theirs, for any three men reading a wern and est led instription may interpret it in three, if not more, differing ways,

A succeeding generation of scholars had ad-



Brinch III Executives Test as Childade Perch Right by Their Workmen.

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How Dad Corvers Reach Clifside?

to be with a closer examination of the enormous relief which a companied the inscriptions reveal any new rotails of Persian art. And how had Dancts's workmen succeeded in carving the relief and the lengthy texts high up a naturalistic out a spot whole today all but marcessaaler.

these operations that I have all forsimple her to have well as to lace to place these four educates were written

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in ise the letternational equation in the appeared to the key that the Annual From a such temble to make any substance of the schools at trap. I proposed to sever me a continuous tempt to solve some a continuous tempt to solve some a continuous work to property the more than a continuous work to property the more than a continuous work to property the continuous tempt to be the more than a continuous work to property the continuous tempt.

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shigh, which was to be our base of operation. My wife and two one accompanied to.

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Oil Company Riggers Help

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"I Am Davius, Great King, King of Kings"

Carreet in the Rock, the moreon wests his test crown. His mustarbe in twirled and his hair gathered into a bun. The square beard, combed into 15 carls, is an meet stope in d in place by peer driven in a the halos on eight side Vantala I affect sear the more. Human i e Great rule Parvis from \$21 to 0 o 480 to 1 and 1 and 1 and 1 and 1 are used making defeat of Marathon. Lose the Circus, he was an Aryan (pages 8.5-85).

by one pulled up the ends of two calles. These we anchored solidly to the plus already in place. Then we returned to our scaffolding and attached it to the cables (pages \$35, \$32, \$34).

As we looked up, however, we saw that it was going to be no easy matter to raise and lower the scaffolding daily over the face of the mountain. Tremandous outjusting and overhanging racks would certainly interfere with our upward or downward progress.

Thirty feet above our heads was a little shelf. If we could leave our scalfolding near that shelf at the end of each days work

and descend the rest of the way by ladder, our thick would be easier. So we placed a long ladder to reach the shelf against the rock wall. Now, in truth, we were ready (page \$35).

bad had a large crowd of sight-seem and will ing butters workmen. Three only were needed upon the scaffolding, are to man each of the two winches, and one to femalit off from the range wall. I would be one of the workmen and so only two others were required.

I turned to two men who had appeared to be most competent.

"Will you come up top with me?"

In unison they replied, "Not us!"

"Too dangeous," teplied these Kardish villagers, who have long been noted for their heatistrong dating!

shocked, I asked for volunteers, offered prize money, and had for answer only low magative murbuars. My project faced distabled me!

Finally, one of the

righters, on hear to me for it's day only, stepped forward and, full-twing him, a saight lad, named "Servant of Ali," Here were my withmen for this day; perhaps tomorrow we did take care of Itself.

Ours was a hard task, for time after time one or both of the winches were jammed up late the numerous overhanging rocks. But little by little we taked our scaffolding higher and higher; we fought not only the outjutting boulders and one own weight on the scafe ld, but also the weight of dozens of men chinging down below to ropes by which they too were trying to hold out

platform away from the mountain's race

We Reach the Ledge!

We passed the little shelf 30 feet alove them, against which our odder rested we passed an oldane gash, the significance of which at first escaped us and we passed sold mak scarped by thousands of thisel.

At long last our scaffolding rested securely on the ledge immodintely beneath the inscription, which now, for the first time, my hands and eyes caresser

It was a triumphant moment. All past vorwover the arrival of "I worthly and the f asinility of my method of attack, disappeared, Allohstacles, im lading the mountain itself, had been overcome. Nothing remadaed but to , job a to 2117 124 , 30 + 153 ing inscription; at it the knowledge gained from 20 years of study to the age-old memorial

the expedition, 1 knew in that moment, would surceed.

Our first day's work ended on this note. As we proposed to be seemd, I realized the meaning of the since as h which we had passed on our ascent, and which we could now see slanting sharply downward just below us. It was an ancient pathway now partially blocked by fallen took.

We left our scallolding where it we are followed the path down. Forty-eight feet of it still remained. Then the pash ended, in scarped took, still almost 50 feet above the writchers also

the fect below its end, however, there was a little semicircular platform about 9 feet long and from 18 inches to 5 feet in width. We dropped to this platform and looked down again. There, 12 feet beneath us, was the top of our ladder, just resting against the etae of a tiny triangular shelf



Hussein of fran Eyes His Persian Ancestors' Forgotten God Abaramaria, the care of leity free to a culture in prior covered with a range model to be head a ty

Cautiously we lewred ourselves once more, our hands and feet a king purchase in a fewer which run down to be shalf below. Our bodies were taut a one by one, we gained the shelf and downded the ladder

Ufficult and dangerous though this method of lescent and ascent in ght be, here was our easiest way of access to the inscriptions. From that time on, we know, ropes a old help out progress up to the sucffolding, which deels would be used only to the first plant of the inscription and rebel

Our first day's work was done, but I needed a workman to replace the company's rigger. Once again I asked for volunteers, this time for the morrow. Encouraged by our day's success, a young boy ranged biasself behind Servant of Ali.



An Oil Refinery Has Transformed Sleeps Kermsushan into a Don., Toxic.

Court down streets, same of their takes to necessis leading is shall be a former train a Saala har the leading favor. For Lamer a court is according to train a fact to the plant of the pl

The second of the control of the con

The large of the track that the large two terms and the terms to the best track and the track and th

on the scaffolding, but untertaintely the l Ali soon found a her interests. What I tried to replace him, again my pleas for once, regardless of the wages offered, fell and it. The work was still "too danger-

Checking Texts of 12-foot Columns

In these straffs now on Thomas, as a vet 15 years one but easer to contribute to the proof volumeered. From that day on, the borse of Hussein. Tone, and I worked from the afolding, made our copies and for higher whole, rath, and cold that all two son, becan to interface ourses and, and

the could was to recherk all previous testion. The copy of Durius's story which is written in Old Fersian. This is carried distributed the relation was verified. I make the test the relation was said a limited, each of which, except for an list relations.

At first a drille a superior to a real of appeared to be its store to the transfer of the party of the transfer of an array of the arra

The first the second the first part of the first

and therepeared. Additioned the section is a section. I want the fine-tone of the section is a section with the fine-tone of the section is the fine of the section. I were down! Where once then it was wedges or signs carved into the time. I have now a solid deposit of rick. This was a section at all, but breservation! It was a statiction at all, but breservation! It



Da mis's Management to His Own Glory stations the Pageant of American Person.

Cill illing a decimation of the contract of th

tuluceous) formation over the surface of the

original inscription.

We were in a position samplow to "erase ' this Sedimentary deposit, but how were we to remove it without dramaging the signs beneath it?

Acid was certainly not the solution. Acid would ext away not only the deposit left in each cut wedge, but also the solid rock itself. A hammer and plain water was our answer.

By delicate beammering through the surface deposit I could retch the original suck surface. Then I could reb a moistened club series the face of the invisible wedges. As the water evaporated, there was a difference in cal material between the original rock and the filled-in wedges. Sign after sign, wood after word, thus tocame evident!

Sometimes our problems were solved in a disconnecting manner. For instance, there was a phrase In one line which for two generations had been the subject of detaite amore scholars. It was quite clear that Durius was saying something about one of his benchmen, but no one had been able to read it.

When the passage came clear in our work, we were reminded only of the "vanishing Ventri, the little man who wasn't there" for Darius merely says, "At that time my servant was not there at that place"!

Thus some gains are in reality goall or

ins gnibeant

Others, however, contribute more to our knowledge, such as a new reading in which the King declares. "Now do you believe what I have done, [even] this [story]; to the penple tell it, do not conreal it."

This passage, also long fought over by orientalists, intrigued us much, for we were inteed enreavoring to carry out Thrius's wishes.

Boulder Nearly Causes Trugedy

The way rocks might full from the cliffside was indicated when, one day, Hussein was sent to the shelf high obove, while I remained apon the ledge. At a given signal he was to swaps the cable over a projecting rock, and I was to do the same on the ledge below. The signal was given, we swang in unison, and I heard a sinister proble above me, that of a falling boulder.

For me upon the ledge, as for my wife and sons below, there was no shelter. I gave a cry of urgent warning and fluttened myself against the face of the inscription. The large book or hurtled by, hit the ledge, and seemed to explode. All of us were struck by some of the tiny fragments; but the ever-whelming relief that dooded us, as hurnedly

each responded to the other's call, can well be imagined. We never tried to move the callles

in just that way again

The ledge bene the fild Persian version varies in breaith from 5 to 6 feet; to the left it continues beneath the Bacylonian and the second Clamite copies, although it is not quite so broad. To the cight of the Old Persian text there is at present no ledge what-seever. Above this partian of the monument, at the height of the sculptured panel, are the four columns of texts never before copied, and of which not even the language was known

Carefully, from the shelf above, we adjusted the postnors of our cubies and then, teturning to the now familiar ledge, reised the scafiolding so that it stood in front of a part of this hitherto unknown text,

What would it tell (\$?

First glance an wed that this text was frightfully weathered, damaged in part beyond recovery. Yet here and there signs came clear, and they were Elamate signs

I began to read, "And Darlos the king says: a man named Phinortes . . ." and realized that the text was duplicating what, in a much better state of preservation, appeared beneath the Bahylonian version below and to the left of the relief!

We moved from the first to the second coltions, from the second to the third, and continued to read in Elamite. Finally we moved to coloran four -and there was no change in language or in phrasedogy; sign after sign, word after word, this text was a duplicate of the other well-known Elamite inscription?

Naturally, I was desappointed, for my hope of finding a new inscription of Darius was gone. Still, there was certain gains by determining what was here written, we had unlocked a door that, until opened, would always be tantalizing. Furthermore, by popying this text also we could unipestlenably improve the reading of the known Elamite text which had been expired by others and which was still to be secured by us.

Text Transferred to Latex

Our copying technique involved phetography, our eyes and hands, and a later solution. The tographs were easily made from the scaffolding. On paper my hands copied what my eyes could see. With the latex compound, however, we were able to make molds which any scholar could read and trust, and which reproduced every sign as it was made by the ancient scalptors, or, rather, as it appears today (page \$37)

We first cleaned the rock surface with soft.



Thomas Caparan, the An nor's San, Measures the Ladge Where the Carvers Sand
This platform, \$ to 7 feet wide, lies some toll feet above the last a paint to the hour of a son could have
the design without his south it where shade where hade on the rock. A most wherean an the Fernan ter-

spirit the art united short-stands are of the spirit the art united to the art united thin stips of an area controlled thin stips of an area was found so that are will to the book, which was found so that are not upon a thicker, together the back to give being to are mode we hald strain of burley back or sack me which we then painted for the land of the area which we then painted for the land of the area of the land of the area.

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The position was not automatically dangerout, except when we can had all eyund the etc. it if although we were always fully aware that a sight discounting of the the force follow, the later term also assets as 12 general terms for the contract the following terms of the follo

Wife and Son Stand Watel:

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Loss, the the law, we applied when there has when the could be a specific an area of the remains add.



West Madely Monarch? Who Carved His Figure on Bisitus Boulder?

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Tach of as was accoming and note normal attentment or work todays in the mean to the property over the sales of the result the poet of the action. We carried an Mount Book at the law, but sheet, for a contract of the action and blankets, as well as a dargerously the late to be a contract.

the state of the state of the shallow crewness high up the ongelike sock. Sometimes we take the state our lunch or labor to want to the vertical tacks, at to object the state of hinds into whose posting place in our states around the content of the state of the sta

Piver state to pasting was the page of the state of the s

turned through the place. There we could see the tea and cofus bouses place to start and school groups around the start of the water and fed the half testile soit.

Down the mud from the hear-by village can blue a count in a read to erect the, yet proud, each head crowned by a jar to be filled with water. There too herds of show and goats wended their way along the road to distant pastures, or patient denkeys lader with farm produce plodded wearily to mark a

Called "I mis" by Unappreciative

Boses and process as Backladfract, so let the process at for a stretch, a cup of tea at the posts of the formation for sine, and of particles of the courtain to see what these thereigness were bing that the analysis of the analysis for the analysis of th

in Baghdad, unwittingly asked us if we knew who the "fools" were who, when he passed Bisiton, itself been thoughng to the precipitous sides of the pountain!

Far across the plain, another mountain tames lifted its sugged and soon snowy crest.

For 10 of our 21 days at Disitua the weather was delightful and crowds often gathered to watch our progress. After that, however, we had to light the ele ner is.

First came the winds, leaffeting our lattle scalleding so hard that at times we felt like circus performers, flying through the air with

great ense.

the grievous day a page torn from my matetook scudded across the 5%-foot length of ledge, and then at terrific speed, began to go straight up the mountain. It was thousands of feet to the peaks above and we seemed to see it goover the top. It was at one of these times, I believe, that Top and Tooglas gave Superman's argent cry. Up, up and away!"

Then came clouds, rain, and cold—ci ads that blanketed fastion in mist, with sorw on top, and rains that dreached us, slowed our progress, and made our work almost a night-

State Date

Hard to Keep Warm

One hitterly cold day, when Hussein appeared for work dressed only in a than shirt and pair of trousers, we lead him a coal and a blanket and still the I take had a teeth that total.

Thereafter, as often as possible. I worked alone upon the scalfolding, although there seemed to be no way that one could keep water. In addition to underwear and sucks, two pairs of troasers, shirt, and sweater, allowed, I work an asmy coat and a native shirt, and packet and still needed, thrown round my shoulders, an army blanket, which

the wind was loath to have in place

After completing our examination of the Old Persian and first Elamite texts, we moved cables and scalibling to the left of the relief to recheek readings of the second copy of the Elamite inscription. This cone, we prepared to raise the scalibling above the hogo outjutting rock which, on two faces, bears the story of Darius as written in Babylonian. This, we know, was a dangerous a plertaking.

It was next to impossible to prevent the upper part of the winches from jamming up into the overbang. Also, as Rawbuson correctly noted a contary ago, the mass of rock on which the hearintion as engraved bears "every appearance... of being a somed to a speedy destruction, water tricking to on above

baving almost separated the overlanging massfrom the rest of the to k, and its own evermous weight thus threatening very shortly to bring it thundering down into the plain, dashed into a thousand fragments."

Inch by inch we tried to ease the scattolding up over the "hump," and time after time the overbang foiled us. Once, when the scaffold was sharply tilted, a cality somewhere above slipped over another overbang, and we were tipped at an even more planning angle. Slowly we righted our fractions "craft" and made a fresh and, this time, a successful as cott.

With the intex solution we were then able to obtain a new and better copy of this portion of the inscription.

Sculptures Carved with Skill

Our work was rearing a close, but we list still to examine the reliefs and to follow the

antient path to its onetime en l

Viewed from the ledge or from the ground below, the scriptures appear to be curved roughly and without much skall. This is by no means true. In fact, they compare favorably with the functus tellels executed at Darlus's royal capital, Persepolis, 450 miles to the southeast.

Those at the capital were intended for public gaze; past them, on every New Year's festival, marched kings and praces bearing tribute from lands next and far. Those at beston, on the contrary, are placed high up the mountainside where the life-size fegures of the King and his gatards appear diminutive, almost infinitesimal. Nevertheless, these same figures are excellently conceived and carefully executed: hogernalls, heards and mustaches broughts, hows, even show are skillfully delineated (pages 8.50, 5.30).

With reval disdain, During states at the nine raters whom he conquered, and tramples with one foot his archenemy, Gammata. The King's result, irlasted and curled, is a separate block of stone set into the rock; it is held in place by two from pegs, leaded in. One peg, thrust into a hole bored in the hving rock, starts in his neck and ends in the inset block; the other begins in front of his month.

All the orifices or openings were once filled

with lead.

Other inset pieces add detail and beauty to the shoulder and the bow of Durius, to the how of one of his guards, and to the crown of the figure of the winger god, Ahuramazda, Justing out more than three inches for a the

*See "Exploring the Secrets of Peropole," by Charles Broasted NATSONAL GENERALIES MALLONI, Ortober, 1943.

god's or we may will be seen an kon peg, cocircled with lead; once, no doubt, the peg was supposinted by a silver or gold ball which glet tered in the sun to indicate neity (p. 829).

Above the relief, an inscription bears Darius's proud boast of his longship and royal descent. The wodges by which the names of his ancestors were cut into the rock were themselves filled in with lead 5x that they too could add baster and dignity.

The local villagers may even preserve some faint memory of the brilliant ornaments that once made of this monument a still more magnificent spectacle, for an interesting rumor larged out over the countryside as we worked

upon the relief.

The timor arcse when, one cay, my wife appeared at the Rock wearing a dress trummed with gladed buttons and a brailed goldlike balt. "The American," it was reperted, "bas given to his wife a gold belt from one of the figures of the nine dervices"!

Madern Riflemen Daniaged Figures

Here and there we totald see signs of willful mutilation in the relief, all done in modern times by the bullets of passing rithemen. Because of this, and because of damage to the inscriptions caused by the underground streams of water, the brunian Government has most properly sought same method by which the life of the sculptures and writings at Bisitun might be preserved

In times past, when queries of this serihave been directed to scholars, the only unswer they knew to give was, "We must preserve them by recording them as accorately as

[1055HHe,]

Our especiation, lowever, managed to preserve a portion of the minel in even better fashions by making a mold of the nable in the of Darios, a guard, and the "liar" Gramata From that mold, in tone a cast will be made and so the Great King may stand before prophes in America or elsewhere just as be has stood for almost 2,500 years on the Rock of Bisition

At long last, we were ready to trace the full course of the oil path by which Darius's soulptors reached the sput on the mountainside almost inaccessive today. Slowly, captiously thissein and I moved across the thickerately smoothest or scarped surface 60 feet around the mountain's face to the point where, perhaps, that path might once have had its beganning. A pleasant surprise awaited ust here was a level patform with two steps leading downward

In the top step holes had been out, doubtiess for the purchase of weaden talls. Below the

second step there was nothing but a vertical descent, for the starway also had been chiseled away completely. But now we knew at nost the full explanation of the method by which the Persians (beniselves had attained the heights,

Four Goals Attained

All four goals were thus achieved: we had copied the four hatbeets numped columns; we had checked all three texts which had present usly been copied (and solved many afficulties in each of them); we had photographed, examined, and taken malifs of the relational we had been oble to determine the nethod by which the Persians had reached the heights to carve their Landiwork.

Then came the final day when, for the last time, we stood upon the ledge. My hands touched gently a portion of the inscription

which one labor had clarified

"Says Daries the king . . . if thou shall not concent this conet, but shalt reveal it to the people, then shall Abutamazda be thy friend, there shad be to thee a large family, and thou shalt live long."

It was a pensive moment

American and British corporations had given of their materials and of their times the American Schools of Oriental Research and the University of Michigan had granted no the opportunity; and I and my family, with the help of a firtle Persian boy, had added our energy and skill. We lead all been strugging to achieve the same goal—a tecording of Parms a monument for poster ty—and the creat king's blessing now seemed to be addressed citeatly to as!

Slowly, flussem, I cm, and I descended the pathway and climbed down the ladder. As we reached the ground, our names give a gentle put to a low bush beside the sudder, a logic overed with small pinces of clash total there by countiess prayerful sorts beseeching Allah for a son. We too uttered a silent prayer, but one of thankfulness that our labor, now ended,

but been shows sto.

For the last time, as a family group, we hooked up once more to the majestic figure of the King of Person. Then, hand in band, too hed by the last langetory tays of the son, we let our eyes wander over the beautiful an oard of sky and mountains, place and vesage below us. As we stood thus, the smoothed peaked and the next generation of lange of land issued from the deep of the school-bouse far below.

Our day, our work here, was dine,

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THOMAS W. M. A. WEST

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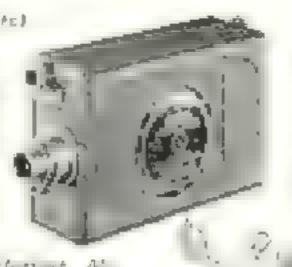
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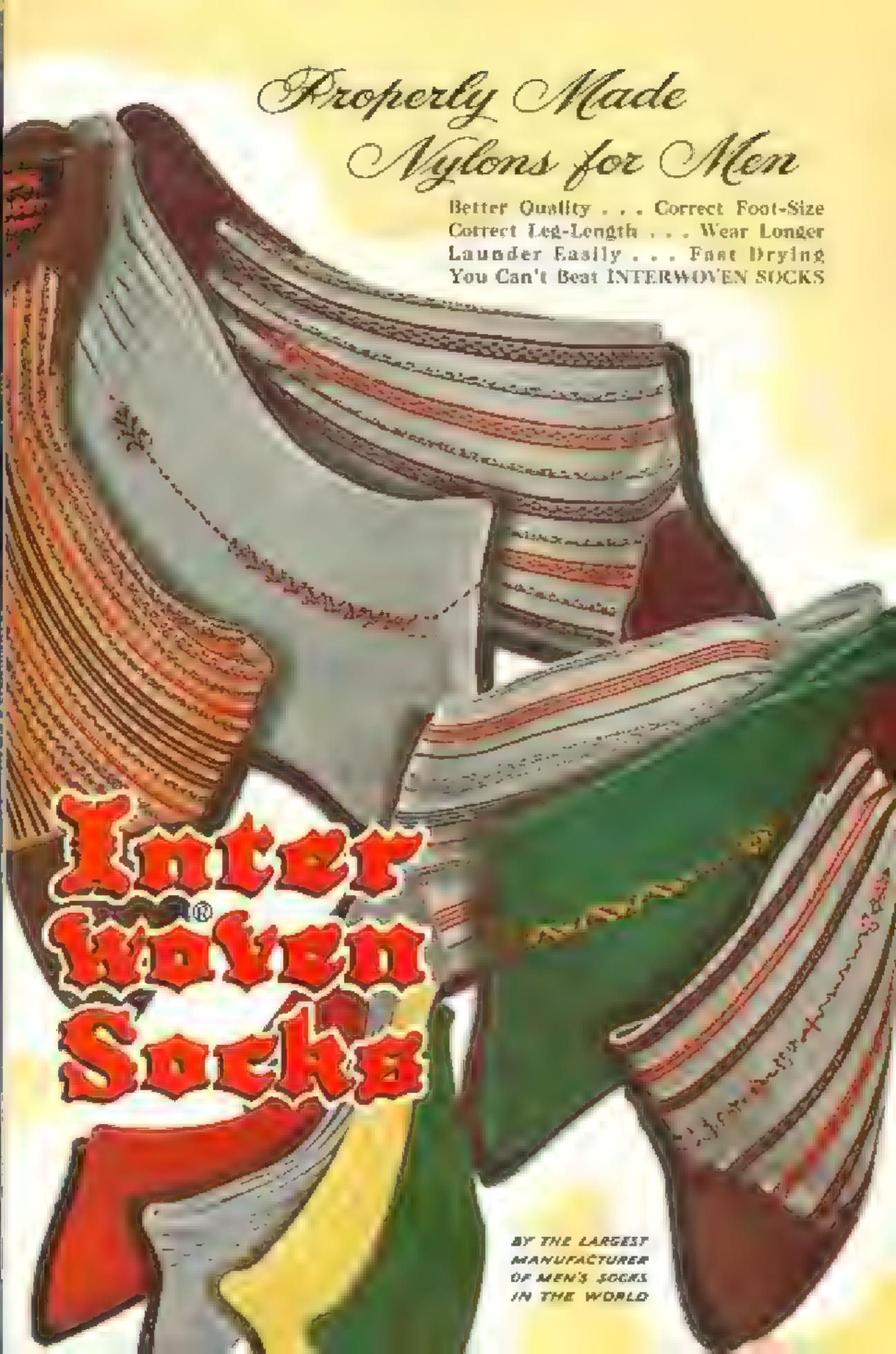
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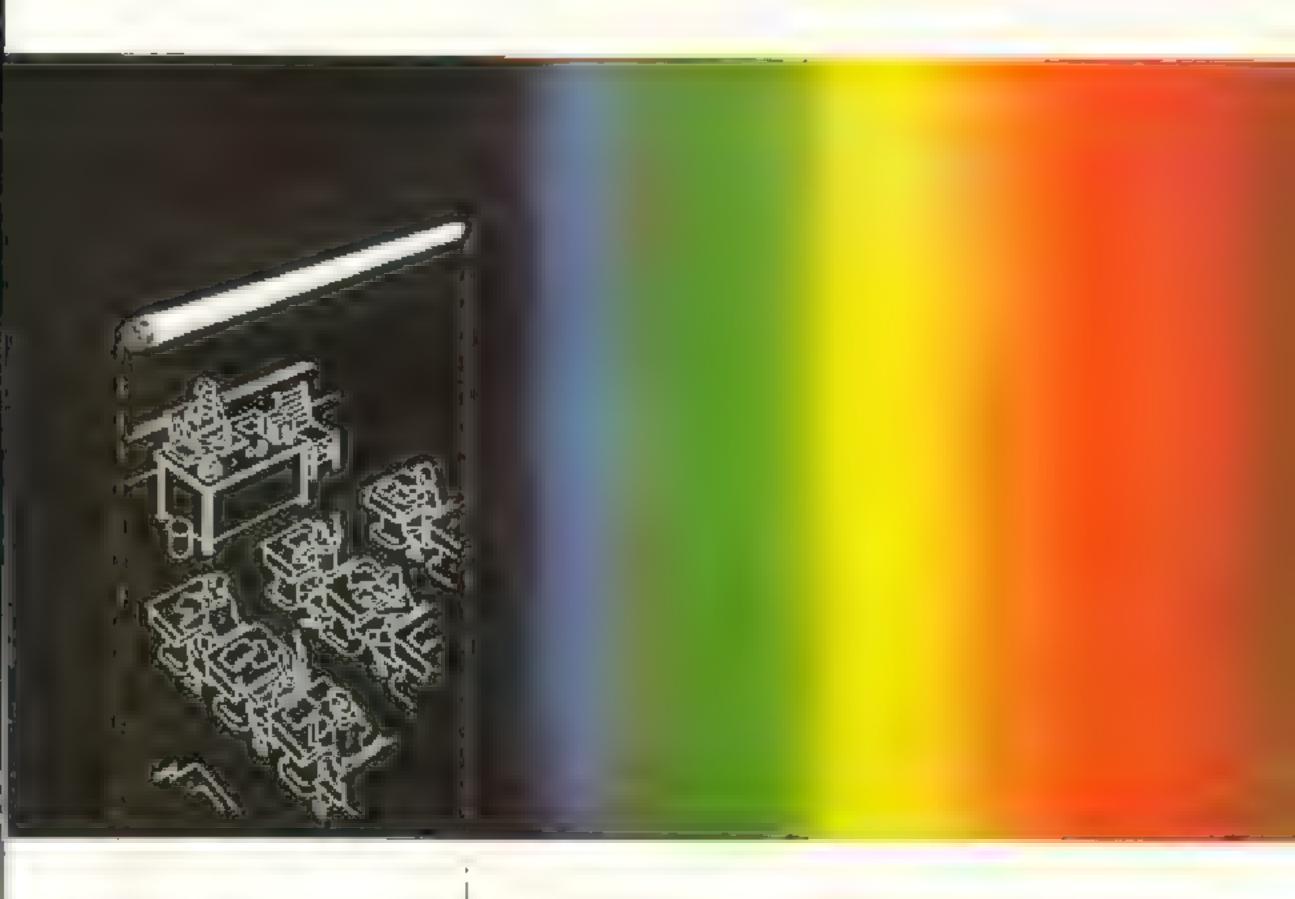
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A momentous motion picture event for the readers of The National Geographic

For 11,000 m.s., I brill harr S warf Uranger, Richard Carlson, the cameramen and attor-showed to produce satal of modern to the sature of the fabled heart of Africa to the latest at the 15th green text of the Nile-Victor and a first They should be verted at the Court Theory should by ship, plane, safari, car, mule, and on their own ach ag feet.

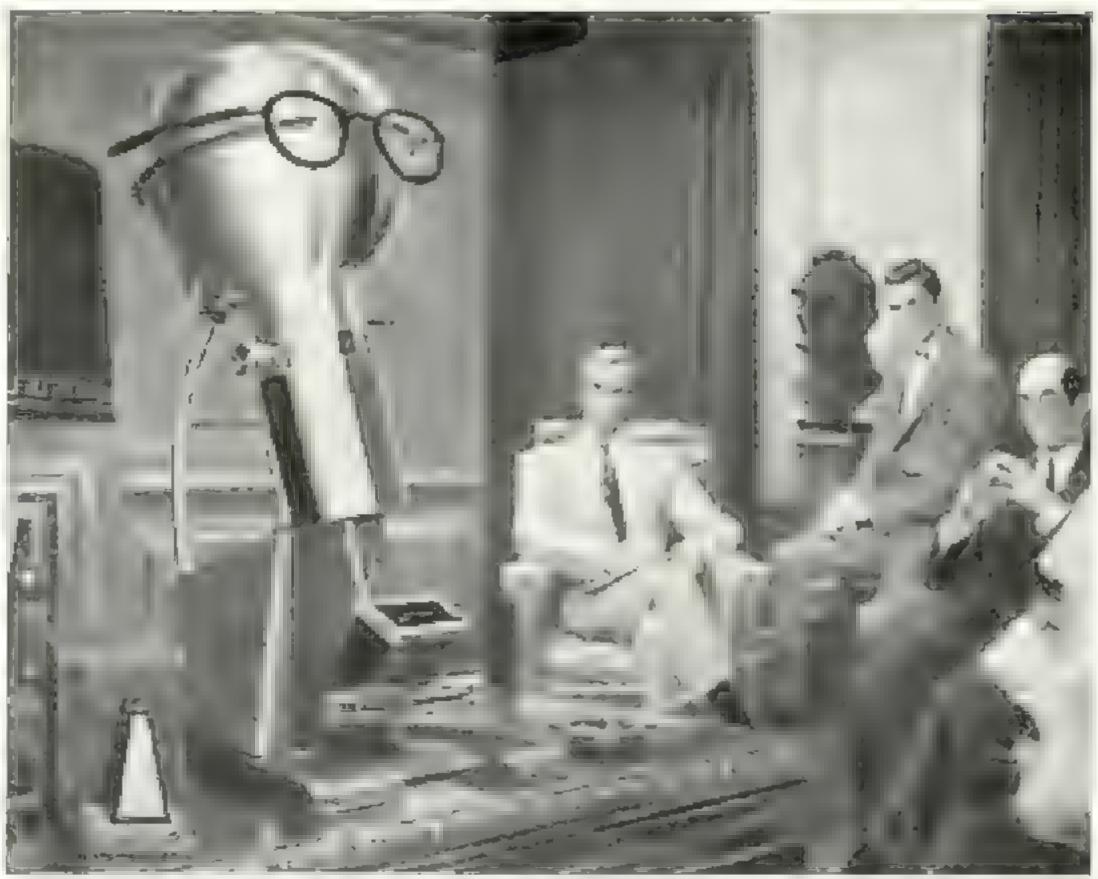
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claws 2 bras, a print, gazel er giraffes, bushtucks—then to add to the terror, a maddened pack of Bons. It was awesome, but it was worth it.

The screen has contacted samething that could have come no easier way... the compeling beauty, the astoniahung tribul ways, the fasculation and majesty that is Africa.

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The new instructor gets a hearty welcome

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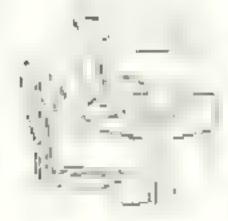


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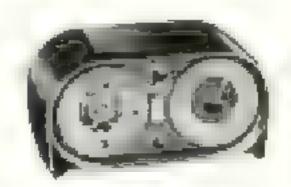
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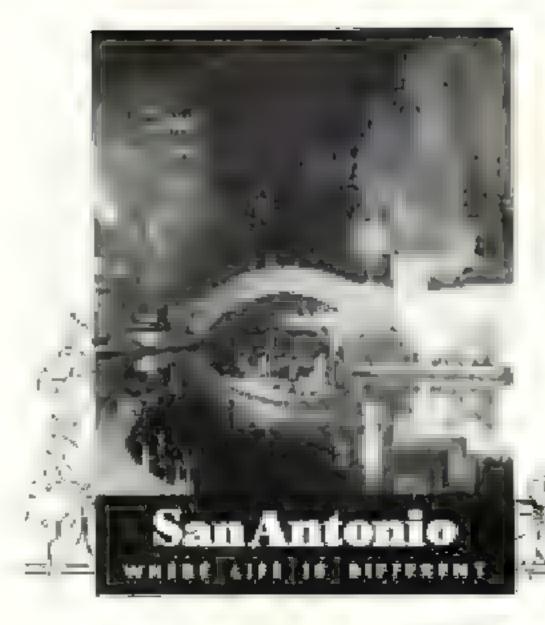
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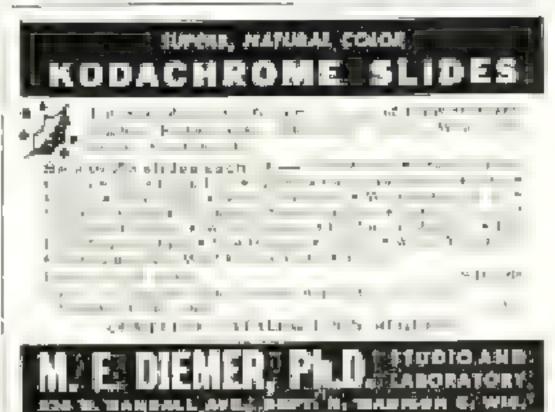


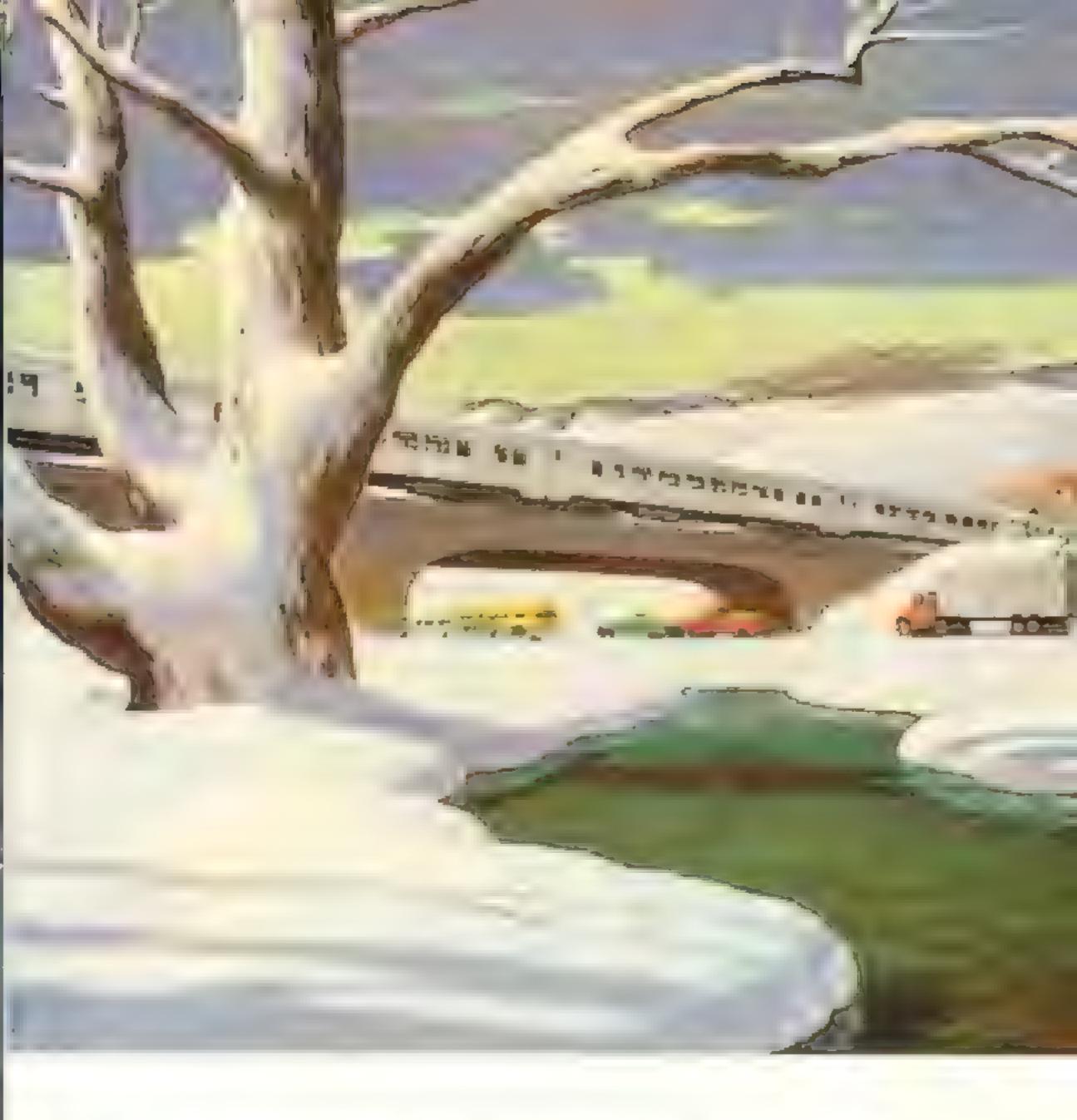
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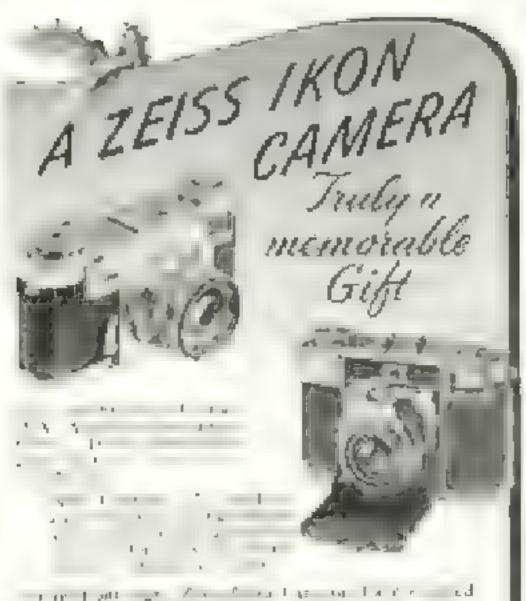
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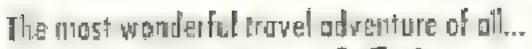
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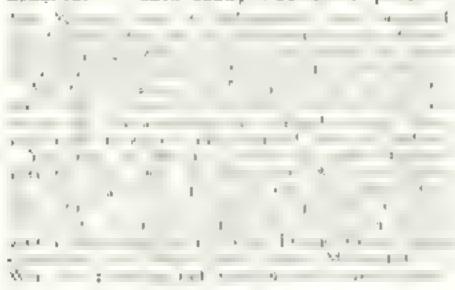


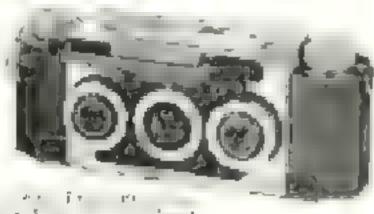
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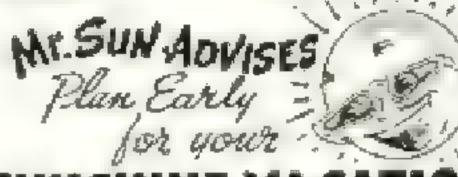
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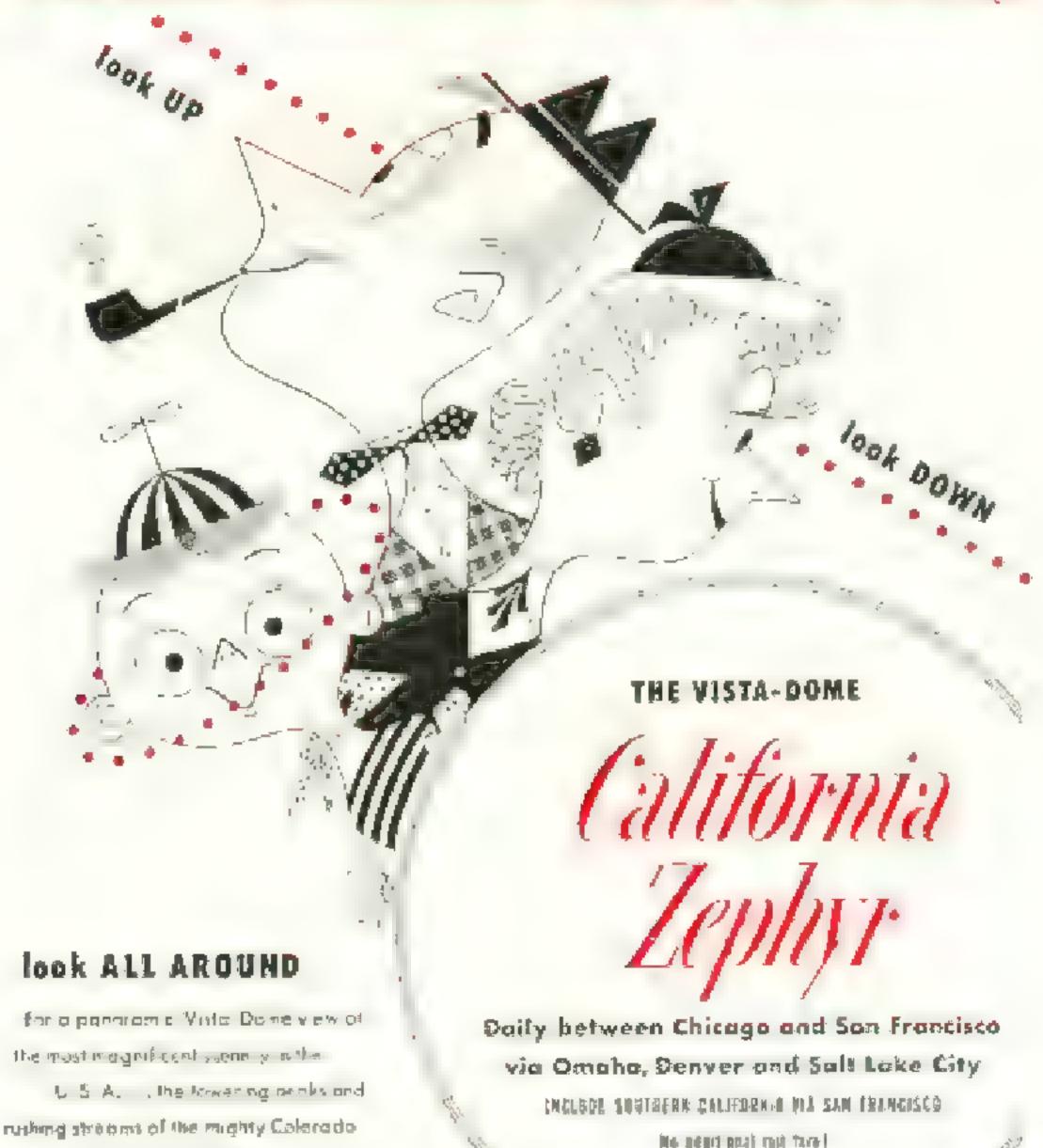


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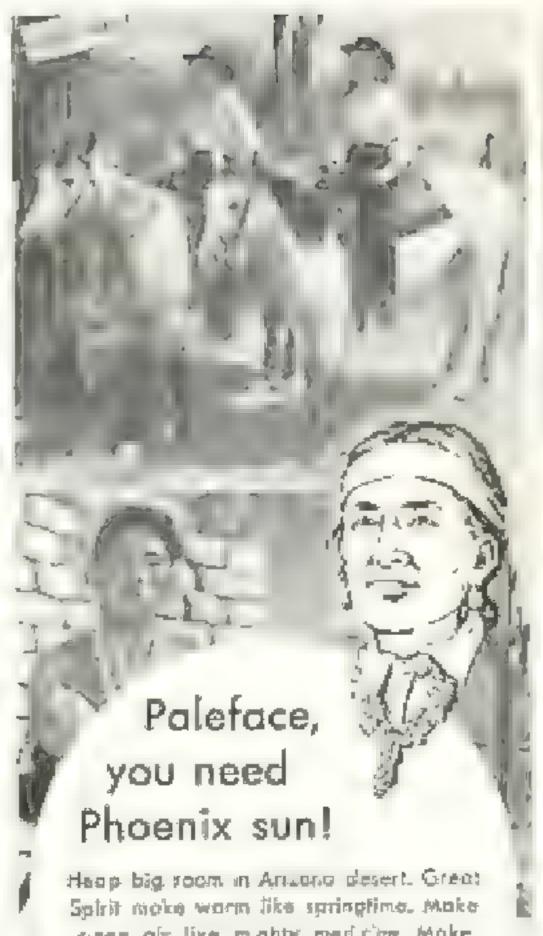


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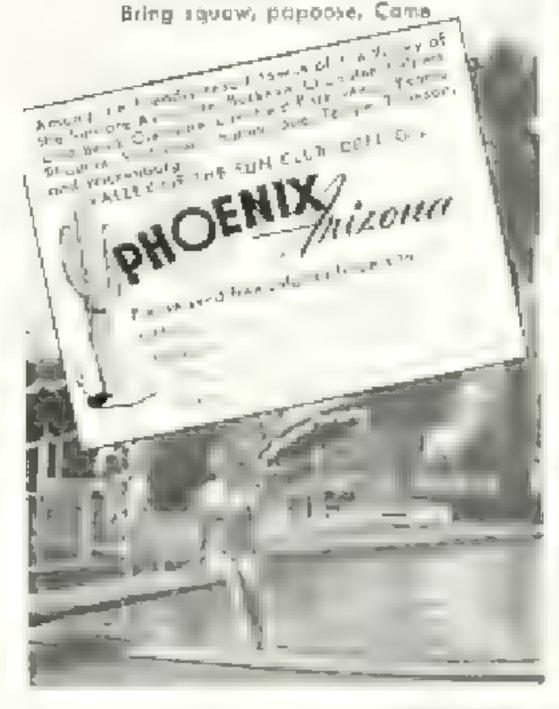




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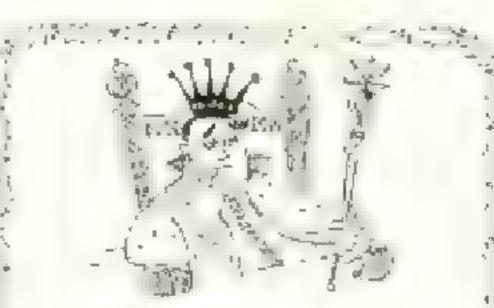
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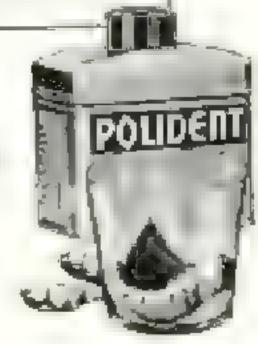
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Three ways to fight

TUBERCULOSIS

The trusta its rate for Juberculosis b, a decoract stepdily over the years. According to the National Ourse of Vital Statistics, the death rate for 100 was 194 per 100, 000 population. Lodge, it is keep than 28 the owest on record.

Despite the decline in the death rate, tubered outhas by no mount been conquered. Nearly 40,000 people in the Littled States lost their lives last year from that disease, and over 130,000 on a cases were reported.

Doctors arge continued efforts to advance the tight against twoercu one. They suggest three ways to do the —wheel the discuss early, then a promptly, and prevent occurrent.



Detect the disease early

The saved soy to find tuberculosin evely is through an X-ray examination at the doctor's other or at a chest come. This is espeerally important if a percussion cough, sever, a "tired feeling" to have it weight occur. For these may indicate early tuberculosis. The disease may, however, be a "stlent sectoress" and show most make at the beginning. That is why it is wise or have X-ray partities made during an annual beauth examination, or whenever a quest X-ray program is sponsored in the continuity.



Treat I promptly

If tabeterlosis should be delocted in an active stage, primpt and thorough the iterant in essented—preferably in a tuberculosis loop has. Thus usually calls for complete bed test which helps the body head the infection.

Other measures may be used inclusting surgery and drug therapy New drugs, swed as an adjunct to rest or surgery, have been expecially betterman in certain types of observations. There is hope that more effective ones may become use lab can the fullare.

Under proper hospital treatment, nutromore say procuedly all persons with early teleproplases outer an excellent chance to get well.



Prevent new cases

In help present new cases of tabercolosis specialists is go that these was based to decase remain it. the hospital anti-their containing examine control.

In this way, implies, friends, of associates are saved from the danger of infaction, for tuberculos are a "cutching" disease spread through contact.

The I ketchood of seveloping it may also be reduced if everyone guards against the desease by ger-ting plenty or soap test, proper exercise, and not listing food

Re in health examinations, including a chest hat y, can usually acted to be fore worth attained to before worth to be to be before of the contemporaries of the contemporaries and a contemporaries of the contemporaries and a contemporaries a

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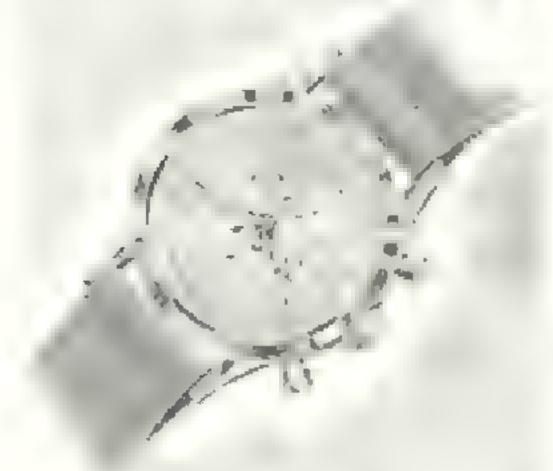
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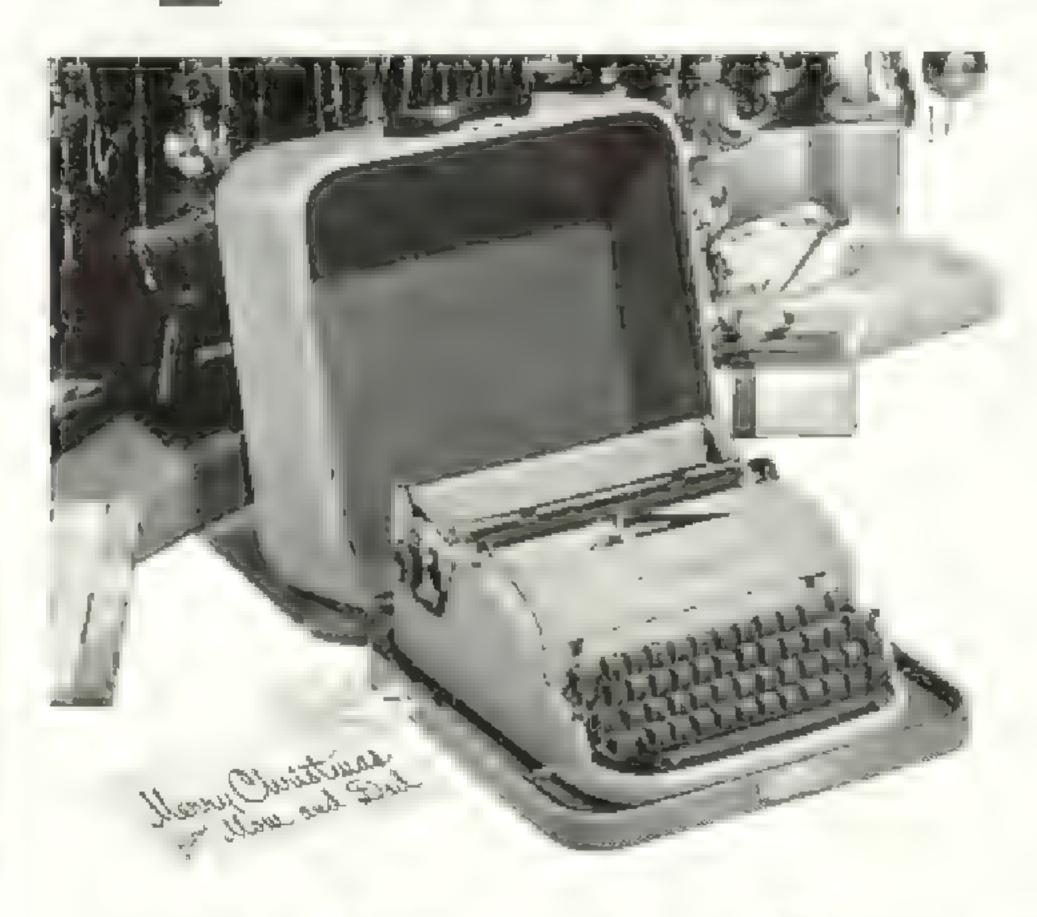
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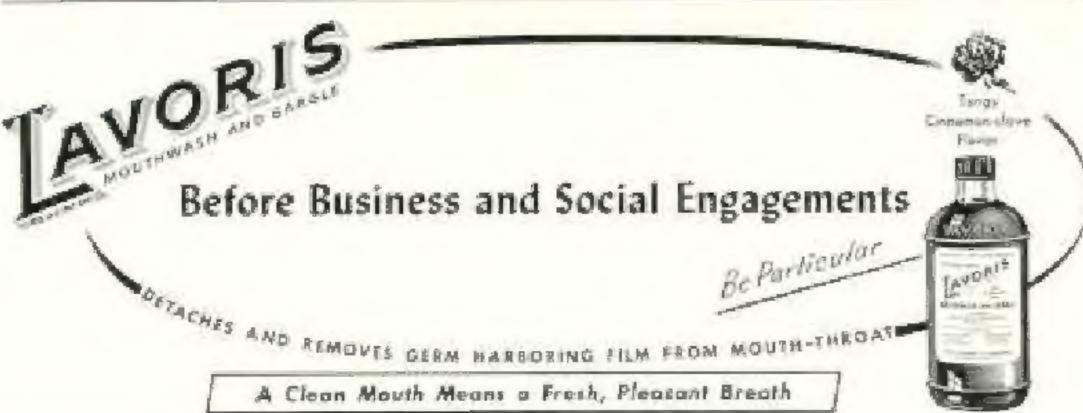


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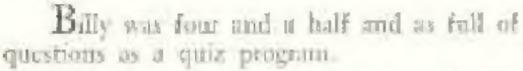


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The little boy who talked to Santa Claus

Direct Line to Toytown—Billy had were Santa Chun in the stores. But this was the first time he had ever talked to him by telephone from his home.

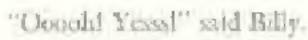


But the telephone man didn't mind. He had a little boy of his own and he knew how it was. Patiently he kept explaining every step as he installed the new telephone in Billy's home.

Finally the job was done and he was about to make the usual call to the Central Office to be sure everything was in working order.

But it wasn't the usual call this time. For it happened to be just a little while before Christmas and you know how excited a little boy of four and a half can get about them. And the installer and his co-workers at the Central Office had something specially arranged for just such a situation.

"Would you like to talk to Santa Claus?" he asked. "Right now-over this telephone"



So the telephone man got the Central Office and asked Santa Claus to come to the telephone if he wasn't too busy making toys. Said there was a nice little boy maned Billy who wanted to talk to him. By now Billy seves were big as soucces, but quick as a flash he had the receives to his car. Next thing he knew, he heard a voice saving—

"Hello, Billy. This is Santa Claus."

"Where . . . are you?" asked a breathless little voice.

"The North Pole," said Santa.

"Is it cold up there?" Etc. Etc. Etc.

They talked for several rangates and there wasn't a happier lad in all the land than Billy. You can just but those telephone people were pretty happy about it too.

THIS IS A TRUE STORY of how a telephone installer uptend gladeers among little boys and girls wherever he found them in the homes he visited during the pre-Christmas period. Nobody asked him and his Santa Chris computation in the Central Office to do it. It was their own idea and just another entrople of the friendly spirit of telephone people. Wherever ther are, and a hatever then do, they aim to serve you not only with efficiency but with courtesy and consideration as well.

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